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Stumpp & Walter Co.
30 & 32 BARCLAY ST., NEW YORK

Seeds

SPRING
1917



S. & W. CO.'S GIANT
DOUBLE-FLOWERING ZINNIAS
25¢ PER PACKET
COLLECTION 1 PKT. EACH OF
5 COLORS-\$1.00

STAIGREEN LAWN SEED



HOW ABOUT YOUR LAWN ?

25-Pound versus 14-Pound LAWN SEED

Many low-price Grass Seed mixtures weigh only 14 pounds per bushel. This indicates either a good proportion of chaff or some of the real good varieties in the rough state, not properly cleansed so as to leave only the vital part and less of the chaff or shell.

In other words, so many less seeds to the quart or pound that will germinate and grow real grass.

Why Not Buy the Re-cleaned Kind?

A mixture of grasses weighing 25 pounds per bushel, of high germination and purity, permanent in nature, the varieties carefully proportioned so that they will succeed one another in brightness of foliage, with the result that the lawn, even in its first year, will have a bright, rich green color from early spring until covered by snow.

Stumpp & Walter Co

One Pound will Sow a
Plot 20 x 20 feet
Sow 80 Pounds to the
Acre

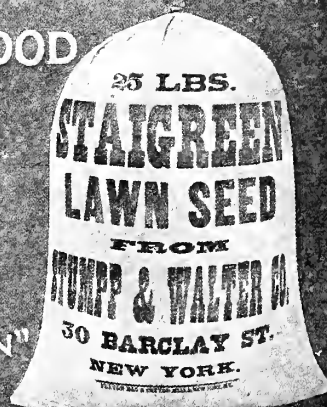
30 and 32 Barclay St.
New York

For General List of Grasses, See Pages 74 to 79

NOT HOW CHEAP, BUT HOW GOOD



DELIVERED ANYWHERE IN UNITED STATES				
Pound	5 Pounds	25 Pounds	100 Pounds	
40 cts.	\$1.75	\$8.00	\$30.00	
DELIVERED ANYWHERE IN UNITED STATES				



"HOW TO BUILD A PERMANENT LAWN"
PAMPHLET FREE IN EVERY BAG



A splendid adaptation of the flower-garden. Its beauties may be enjoyed from the windows of the home

SPECIAL FREE DELIVERY

We will deliver all Seeds and Bulbs listed in our catalogue anywhere in the United States, if your purchase amounts to One Dollar or over, when cash accompanies your order, by mail, express or freight at our option, to your town or city. On Implements, Fertilizers, Insecticides. Plants, Potatoes, Peas, Beans and Corn, we do not pay mail, express or freight charges.

Packing.—We make no charges for cases or packing, only for bags for Timothy and Clover; these bags cost twenty-five cents extra for each two bushels.

Remittances should be made by Draft on Bank, Post-Office Order, Registered Letter or Express Money Order. Small sums may be sent in postage stamps of small denominations. Particular care is essential in having name, post office, county and state distinctly written. We are in receipt of many orders deficient in these important particulars, often causing a delay of weeks in executing them, to the great inconvenience of both parties. Charge accounts are readily opened to all persons of approved credit.

Non-Warranty.—We, Stumpp & Walter Co., give no warranty, express or implied, as to description, quality, productiveness, or any other matter of any seeds, bulbs, or plants we send out, and will not be responsible for the crop.

All claims must be made within 5 days after receipt of goods.

JULIAN H. WALTER, *President*
 GEORGE G. STUMPP, *Treasurer*
 WILLIAM A. SPERLING, *Secretary*

STUMPP & WALTER COMPANY
 30-32 Barclay St., New York City

S. & W. Co.'s Novelties and Specialties in Flower Seeds

The descriptions given of the following Novelties are those of the introducers. In this connection we desire to say that all are from the best possible sources of supply, and have been selected by us with every regard for the reliability of the introducers.

THE FIVE KING ASTERS

This magnificent class of Asters is distinct from all others in the character of the flowers. The long, narrow petals are folded lengthwise, appearing almost as though quilled. The flowers are of great size and substance, and last longer when cut than any other class.

The plants are large, and the stems exceptionally long and strong. Our customers who have grown this famous group of Asters, four of which we have featured on our back cover, will be pleased to learn of another color being added to this splendid type of Aster.

White King and Pink King are of more upright habit, while Lavender King, Violet King and Rose King are of branching habit; blooming, as they do, with our Late Branching, they make a very desirable addition and should be grown in every garden.

LAVENDER KING. Pkt. 15 cts., $\frac{1}{8}$ oz. \$1.

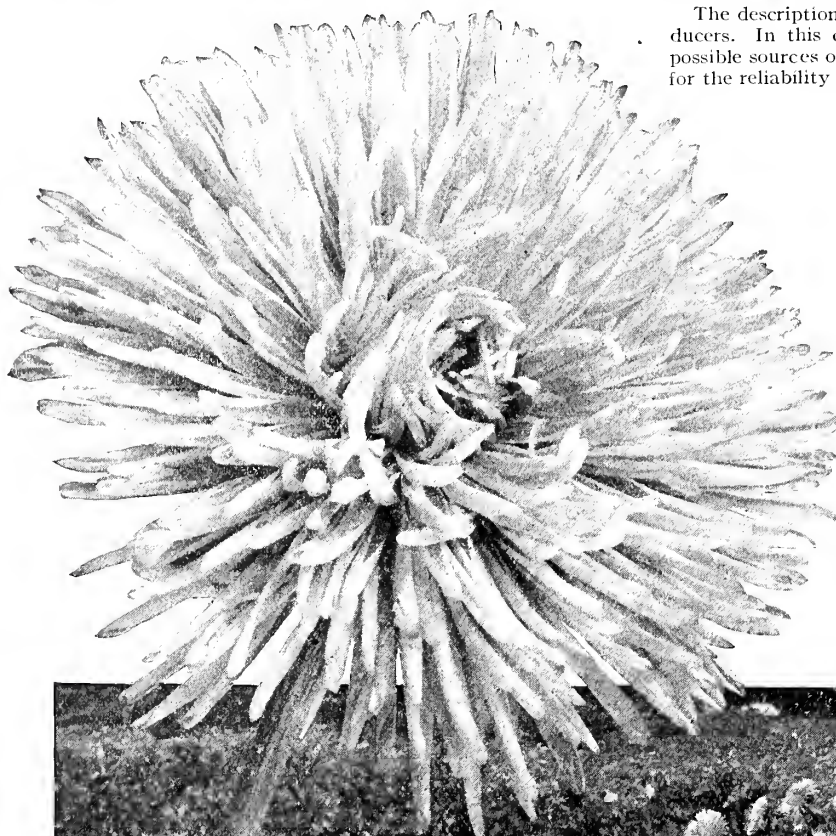
PINK KING. Pkt. 15 cts., $\frac{1}{8}$ oz. \$1.

VIOLET KING. Pkt. 10 cts., $\frac{1}{8}$ oz. 60 cts.

WHITE KING. Pkt. 15 cts., $\frac{1}{8}$ oz. \$1.

ROSE KING. Pkt. 10 cts., $\frac{1}{8}$ oz. 75 cts.

Collection: 1 pkt. each, 5 King Asters... \$0 50
 $\frac{1}{8}$ oz. each, 5 King Asters... 3 50



BED OF KING ASTERS

TEN CHOICE AMERICAN ASTERS

The following ten Asters, many of which were introduced by James Vick's Sons, Aster Specialists, deserve a place in every garden, as they are among the best of recent introductions.

Autumn Glory. **New Very Late Branching Aster.** Pure sea-shell pink. While similar in color to Semple's Pink, with which most persons are familiar, it has a better and more substantial flower, a deeper and longer-keeping color, larger and stronger type of plant. Its most distinctive characteristic and chief claim for recognition, however, is the fact that it is later in season than any of the other varieties. While it cannot take the place of Semple's Pink, Peerless Pink, Shell-Pink Rochester and others of similar color, all of which are earlier, it supplements them by blooming after the other Late Asters are past their prime, and before the early Chrysanthemums are ready, thus prolonging the Aster season two weeks, and coming at a time when good flowers are extremely scarce. Autumn Glory will be a money-maker for the commercial grower, and a delight to the amateur. It comes uniformly true to color and type. The flowers are splendid in size and form, very double, and are borne on stems of unusual length. Pkt. 15 cts., 2 pkts. 25 cts.

Pink Enchantress. Upright in habit, as distinguished from the Branching form. The plant is very vigorous, and produces long, strong stems for the support of numerous large exhibition blooms. The flower is always full-double; petals are of medium length and very broad; those toward the center fold in very regularly, while gradually, toward the outer edge, the petals stand out more and more until those on the outside recede from the center, thus increasing the diameter of the flower, which compares very favorably in size with the largest-flowering kinds on our farm. Color similar to that of the Enchantress carnation; flowers late. Pkt. 15 cts., 2 pkts. 25 cts.

Peach Blossom. A decided and pleasing shade of deep lavender-pink. The flowers are of the largest Branching size and very deep, having an unusual number of rather narrow petals. The size and thickness of the flower give it a massive effect. The plants are of the non-lateral type, with very strong stems that hold the flowers up at all times; flowers late. Pkt. 15 cts., 2 pkts. 25 cts.

White Perfection. Finest midseason white Aster in cultivation. The flowers are 4 inches in diameter and exquisite in form, and the plants are taller than those of the late upright Asters. When first open the entire flower is whorled, producing a charming effect; the broad petals are slightly folded lengthwise, making them appear rather narrow. The plants are extremely vigorous; they carry about twelve large flowers on strong stems free from side branches. Pkt. 15 cts., 2 pkts. 25 cts.

Early Upright White. This is one of the best selling novelties of the last two seasons. Plants grow compactly with long, erect flower-stems, which are quite free from side shoots. Plants yield eight to twelve flowers. The flowers are unusually large and solid, compact and ball-shaped. The crown is completely covered. Pkt. 10 cts., ½ oz. 50 cts.

Royal Pink. Possessing all the characteristics of our famous Late Branching, and identical in habit with Royal Purple, except in color, which is a beautiful shell-pink. Blooms several weeks earlier than the Late Branching. Pkt. 15 cts., 2 pkts. 25 cts.

Royal Purple. Considered by most people who have grown this as the best medium-early Branching Aster of its color. It has all the advantages of vigor and productiveness; color striking. Pkt. 10 cts., ½ oz. 50 cts.

Early Snowdrift. The earliest white Aster in existence. When planted early, the plants will grow quickly and send out eight to fifteen long stems, crowned with immense flowers. Pkt. 10 cts., ½ oz. 50 cts.

Lavender Gem. Truly a gem and easily the finest early lavender. Full-double flower, the feathery effect of the ostrich-feathered type is enhanced by the fact that it bears long, partly tubular florets that are irregularly cut and slashed, resembling ragged chrysanthemums. Pkt. 10 cts., ½ oz. 50 cts.

Improved Crego Pink. The plants are vigorous and productive of from ten to fifteen strong flower-stems frequently 2 feet or more in length. Pure shell-pink flowers, 4 to 5 inches; in bloom from mid-August on through September. Pkt. 10 cts., ½ oz. 50 cts.



Pink Enchantress Aster

COLLECTION. One packet each of 10 varieties, \$1

ANTIRRHINUM

Giant-Flowering Fall Varieties

The following two varieties of Snapdragons have been selected from our trials as being worthy of listing. Both belong to the tall-growing type which is so useful as a cut-flower.

Feltham Beauty. Quite the largest-flowering variety introduced to date. The color is a deep rose-pink, with white centers. The spikes are very long, and the plant is a strong-growing and very free-flowering one. **Pkt. 25 cts., 5 pkts. \$1.**

Orange Beauty. A lovely orange-scarlet, with gold lip and a very large flower. **Pkt. 25 cts., 5 pkts. \$1.**

SINGLE ASTER, Southcote Beauty

This new race much resembles the single Ostrich-Plume Aster which has become exceedingly popular during the last few years. It has all the beauty of habit and flower which the latter possesses, and is a distinct acquisition. The flowers have long, perfectly formed petals, but the golden yellow centers are very small. They are carried on long, stiff stems, 12 to 20 inches in length. The colors include beautiful shades of pink, blue and white. Southcote Beauty attains a height of 2 to 2½ feet, and is probably unrivaled by any other Aster for cutting and house decoration. **Pkt. 15 cts., 2 pkts. 25 cts.**

CALLIOPSIS FIRE KING

The flowers are of a deep bright scarlet, with cactus-shaped petals. It is very free-flowering, the plant being a mass of flowers, as many as 700 blooms being counted on one single plant. The habit is bushy and compact, height about 18 inches; very showy. **Pkt. 25 cts., 5 pkts. \$1.**

CARDINAL CLIMBER

(*Ipomoea Quamoclit hybrida*)

This hybrid *Ipomoea* is considered one of the most brilliant and distinct annual climbers introduced. A rapid grower, often attaining the height of 30 feet or more. The deeply lacinated, fern-like foliage and fiery cardinal-red flowers are borne in profusion from July to frost. The flowers are about 1½ inches in diameter and are borne in clusters of five to seven blooms. Seed may be sown indoors during April, but it is best to wait for warm weather and sow outdoors in a sunny position. Soaking the seeds in warm water before planting hastens germination. **Pkt. 25 cts., 5 pkts. \$1.**

CENTAUREA AMERICANA

While this variety of the Giant Cornflower is not a novelty, it is only this past year that it has been more generally seen in the American garden. The stems, foliage and flowers are gigantic in size compared with the regular sorts. The flowers which appear thistle-like and gradually open, and attain the size of 4 inches, are of a splendid, deep lavender-color, making an excellent subject for garden decoration or cuttings. Like the Cyanus, it is easily flowered from seed sown outdoors; plants should be placed at least 1 foot apart. Height 3 ft. **Pkt. 15 cts., 5 pkts. 50 cts.**

CLARKIA, BRILLIANT, DOUBLE

This is a distinct advance in the Clarkias, which has resulted from careful selection of the tall-growing varieties. The variety we offer is quite fixed in character; the color is beautiful salmon-pink. Plants grow about 2 feet high, which makes them good subjects for pots or open-ground culture. A grand acquisition to the hardy annual section. **Pkt. 20 cts., 3 pkts. 50 cts.**

NEW RACE OF COSMOS

S. & W. Co.'s Double-Crowned and Crested

We consider this one of the best Flower Novelties of the year—an entirely new race of Cosmos. The plants are similar

in habit to our famous strain of late-flowering Cosmos, and a fair percentage have double crowns, which give the flower a very dainty and exquisite appearance. The colors are pure white and a delightful shade of shell-pink. Seed sown in our trials in early August bloomed the middle of October, giving a percentage of delightfully double-crowned blooms. In order to give our patrons the advantage of seeing this in 1917, we have decided to offer it in advance of having it absolutely fixed for color and type.

Pink and White Mixed.
Pkt. containing 25 seeds,
of an even proportion
of the pink and white
varieties mixed, 25 cts.,
5 pkts. \$1.



Dimorphothea aurantiaca

(African Golden Daisy)

This is by far one of the best introductions in recent years. The plants are of branching habit, growing about 15 inches high; the flowers are a rich golden orange with a dark center. Being an annual, it is easily cultivated and will give a magnificent display all summer. Very highly recommended. **Pkt. 10 cts., 3 pkts. 25 cts., ½ oz. 75 cts.**

Aurantiaca hybrida. Beautiful new hybrids of the African Golden Daisy, similar in habit to the parent. The flowers are equally large, but vary in color from purest white through the various shades of yellow, orange and deep salmon, the deep black eye forming a splendid contrast. As a border plant few annuals have attracted more attention of recent years than the African Golden Daisy and its hybrids. **Pkt. 20 cts., 3 pkts. 40 cts., ½ oz. \$1.**

S. & W. Co.'s Double-Crowned and Crested Cosmos

NEW HYBRID DELPHINIUMS

(Hardy Larkspurs)

The magnificent Hybrid Hardy Larkspurs offered below represent the finest varieties of a famous English collection, many of which, up to the present time, have reached the gardener only in plant form. Through special efforts we have induced England's best specialists to carefully save seed for us, and we offer a fair quantity of seed of each variety. It is a well-known fact that seed saved from these varieties can never be relied upon to come strictly true to name. We have no hesitancy in saying, however, that due to care taken in gathering seed the plants produced will give flowers equal in merit as regards size and color to those from which seeds were saved.

Amos Perry. Rosy mauve; semi-double.

Andrew Carnegie. Enormous, double flowers; soft lilac, with blue center.

Beauty of Langport. Creamy white, with pale buff eye.

Chamud. Very dark violet; double-flowering.

Corry. Sky-blue, with rosy tinge; double-flowering.

King of Delphiniums. A magnificent variety, with massive spikes well set with semi-double flowers, 2 inches or more across. In color a rich gentian-blue, with a very conspicuous white center.

Lady Ravensworth. Lovely bright blue.

Prince Henry. Semi-double; rich, dark purple, with white center.

Rozenlust. Light blue, shaded rose.

Zuster Lugten. Rich, dark blue; double.

Any of the above, pkt. 25 cts., 5 pkts. \$1.

COLLECTION, 1 pkt. each, 10 varieties \$2 00

HARDY LUPINS

Owing to the increasing interest shown in this extremely showy and useful hardy perennial plant, we are offering for the first time this year a list of best named sorts which heretofore were obtainable in plant form only.

Polyphyllus, New Hybrids

Blue Cloud. Long spikes of soft lavender-blue flowers, with upper petals shaded rose.

Eastern Queen. Blush, shaded sky-blue.

Ophir. Soft blue, having rosy lilac upper petals, turning to deep red.

Rosy Gem. Soft rose, changing to deep rose.

The Bride. Primrose, shaded delicate rosy peach.

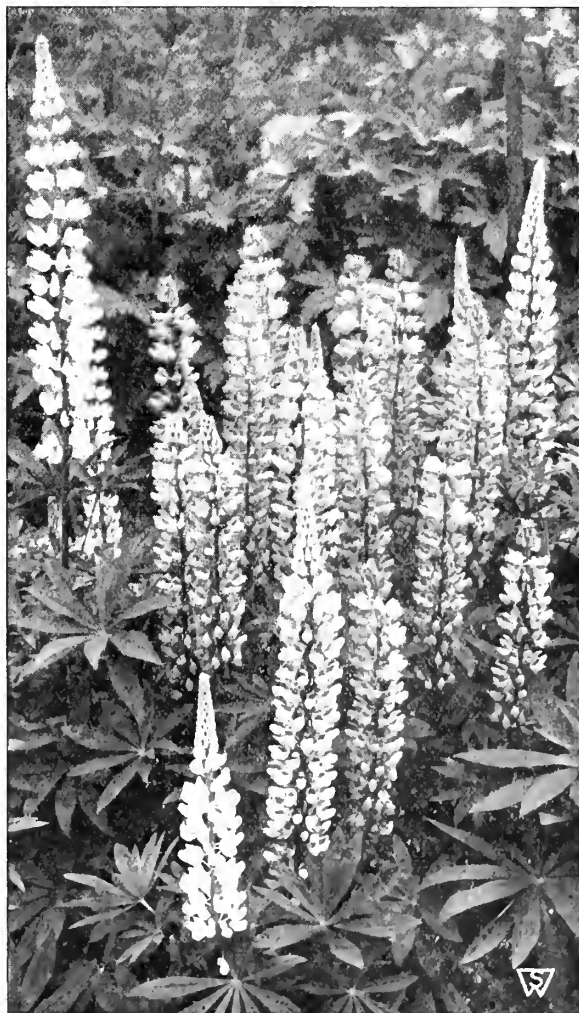
Enchantress. Blue, upper petals shaded rose.

Nelly. White and rose.

Yellow Boy. Soft yellow, shaded buff.

Any of the above, pkt. 25 cts., 5 pkts. \$1.

COLLECTION, 1 pkt. each, 8 varieties, \$1.50



NEW HYBRID POLYPHYLLUS—LUPINS



NEW HYBRID DELPHINIUM

Arboreus, New Hybrids (Tree Lupins)

Sea Gull. Primrose-yellow.

Sunset. Golden yellow, passing to bronzy red.

Yellow Gem. Clear yellow.

Somerset. Deep yellow.

Yellow Queen. Primrose-yellow.

Any of the above, pkt. 25 cts., 5 pkts. \$1

COLLECTION, 1 pkt. each, 5 varieties \$1 00

GAILLARDIA LORENZIANA, THE BRIDE

The annual Gaillardias have always been very popular, more especially the double Lorenziana, and we feel that the variety that we now offer as "The Bride" will be much sought after. The flower is white, very double, and borne on very long stalks, making it an ideal plant either for bedding or cut-blossoms. Pkt. 20 cts., 3 pkts. 50 cts.



Giant African Marigold

GIANT POLYANTHUS

An entirely new and magnificent strain of Giant-flowered Polyanthus, producing very large trusses of exceptionally large flowers. By painstaking cross-breeding, and great effort in selection, our grower has succeeded in developing this wonderful strain. The plants are of strong, sturdy habit, bearing immense trusses of large flowers on strong stems, 10 to 15 inches long. **Our seed has been saved from rich crimsons, scarlets, deep maroon, maroon margined white, which we offer in a mixture at 35c. per pkt., 3 pkts. \$1.**
Yellow Shades, Mixed. A mixture containing all shades of yellow, from primrose to deep orange. **Pkt. 35 cts., 3 pkts. \$1.**

NEW ORIENTAL POPPIES

Few flowers surpass the Oriental Poppy in splendor or gorgeous display. They bloom during May, and are wonderful for color. The newer varieties, all of which we have for the first time this year been able to offer from seed, are distinct improvements over the older sorts, and may be relied upon to produce 50 per cent to 70 per cent true-to-type plants.

Goliath. Gigantic flowers of fiery scarlet.	Oriflamme. Orange-scarlet.
Jenny Mawson. Salmon-pink.	Princess Victoria Louisa. Beautiful shade of salmon-pink.
Mrs. Perry. Clear apricot, a magnificent color.	Queen Alexandra. Clear rosy salmon.
Oriental King. Crimson-scarlet.	Rembrandt. Orange-scarlet.

Any of the above named varieties, pkt. 25 cts. each, 5 pkts. \$1
COLLECTION, 1 pkt. each, 8 named varieties, \$1.50

PETUNIA, S. & W. CO.'S PINK BEAUTY

This is a grand acquisition to the single bedding Petunias. Color a beautiful, brilliant rose-pink, throat lightly suffused yellow. The flowers are very large and of handsome form. Of very rapid growth and continuously in bloom. Many who have grown this Petunia in beds, borders or rockeries proclaim it the best they have ever seen. **Pkt. 15 cts., 1/2 oz. \$1.**

GIANT AFRICAN MARIGOLD

Few plants have to their credit the mass of glorious color such as is furnished by Marigolds and zinnias in the garden. Their season of bloom during the summer until fall strongly suggests their use. Seed of this type should be sown outdoors in May and transplanted, leaving at least 18 inches each way between the plants, as they are robust growers and can attain their maximum development only if given plenty of growing space.

Giant Show Lemon. This highly meritorious strain of the African Marigold is grown specially for us by a specialist in Europe who selects only the finest blooms and plants of unusually good constitution for seeding purposes. Height 2½ feet. **Pkt. 25 cts., 5 pkts. \$1.**

Giant Show Orange. The darker form of the preceding variety. Height 2½ feet. **Pkt. 25 cts., 5 pkts. \$1.**

NASTURTIUM, NEW GIANT-FLOWERING

The plants are strong and vigorous, with very large, bright green leaves, measuring from 5 to 8 inches across. The flowers, which are very numerous, measure 3 inches in diameter, and are borne on long stems well above the foliage. They are exquisitely formed, with overlapping, crinkled petals. They are produced in great numbers and have a most striking effect. Their fine color, long stems, great size and esthetic form make them valuable for cutting.

Giant-flowered, Dwarf, Mixed. Pkt. 10 cts., oz. 25 cts., ¼lb. 75 cts., lb. \$2.

Giant-flowered, Tall, Mixed. Pkt. 10 cts., oz. 20 cts., ¼lb. 60 cts., lb. \$1.50.

PANSIES

(Giant Winter-Blooming)

These new Pansies may be announced as an introduction of great importance. Sown at the same time as other Pansies, they begin flowering early in March, that is at a time when very few bedding plants are in bloom. The cardinal feature of these plants is an extreme hardiness, which enables them to withstand quite severe winters and to bloom right on into the summer. They have also an appreciable pleasant perfume. For autumn planting on graves and for very early bedding before the advent of spring, as well as for early cut-flowers, this new giant-blooming, earliest class can be warmly recommended.

Winter Sun. Golden yellow with dark eye.

Ice King. Silvery white with dark blue eye.

Celestial Queen. Light or sky-blue.

March Beauty. Dark, velvety blue.

Giant Winter, Mixed.

Any of above, pkt. 25 cts., 5 pkts. \$1.

PRIMULAS

FOUR FINE GREENHOUSE VARIETIES

Malacoides (The Giant Baby Primrose). The flowers measure ½ to ¾ inch across, and the plants branch very freely. The flowers, of a pretty light lilac, are borne in whorls on stems which are graceful and strong. If grown in a greenhouse, can be had in bloom in four or five months after sowing. A most delightful plant for table decoration. **Pkt. 25 cts., 5 pkts. \$1.**

Malacoides alba. This beautiful new variety is a welcome addition to this type of Primula. All those who have grown Malacoides have been pleased, making the white variety a strong favorite. Makes a charming combination with the lilac form. **Pkt. 25 cts., 5 pkts. \$1.**

Forbesi (The Baby Primrose). Quite the freest-flowering Primula we know of. The plants throw up tiny flower-stalks when only a few weeks old, but we advise pinching them off and the plants kept growing until October. They may then be allowed to flower, which continues until late in the spring in greatest profusion. **Pkt. 25 cts., 5 pkts. \$1.**

Kewensis. This new variety is most attractive, with pleasing, bright yellow flowers borne on long stems. It is delightfully fragrant and stands well as a house plant. **Pkt. 25 cts., 5 pkts. \$1.**

NEW RED SUNFLOWER

The advent of a real Red Sunflower has been proclaimed by European and American growers for several years; but up to the present little has been accomplished in this line. To a professor of biology in Colorado belongs the distinction of this accomplishment. Working on Mendelian principles, he crossed a red Sunflower found by the roadside with a cultivated yellow variety, and after a period of three years produced some plants of a rich chestnut-red color; others red flowers tipped with yellow; others red-margined with yellow in varying widths. The plants vary in height from 6 to 7 feet, and throw out many side branches, all of which terminate with flowers 6 to 8 inches across, with large, long rays and small disks. A percentage of seed produces all-yellow varieties which may be removed from the garden when the plants are growing, as they may be distinguished from the darker sorts by the stems which show green even in the young growth, whereas the other darker sorts show purple. While this variety is not as yet entirely fixed, it is a beautiful novelty, and we feel sure that while only a percentage of the plants will come true, and many show tips and disks of yellow, its marked advance will be appreciated by all lovers of this easily grown annual. Seed may be sown in the open ground in May, and plants should be given at least 2½ feet to attain best development. **Pkt. 25 cts., 5 pkts. \$1.**

NEW SALVIAS

We have several varieties of New and Rare Salvias to offer below, and would ask our patrons to give them a trial.

Farinacea. A perennial variety, but best grown as an annual. Seed sown in the open ground in May blooms from July to frost. The light blue flowers are borne on long spikes, held above the foliage; makes a good blue line. Grows about 2 feet high. **Pkt. 15 cts., 4 pkts. 50 cts.**

Farinacea alba. The white variety. **Pkt. 25 cts., 5 pkts. \$1.**

Fire-Ball. A compact type of the Salvia Bonfire, and very free-flowering. The finest type for borders or beds requiring a variety more dwarf than Bonfire. **Pkt. 15 cts., 1/8 oz. \$1, 1/4 oz. \$1.75.**

Ostrich-Plume. The Ostrich-Plume Salvia is the most beautiful of all Salvias of recent introduction. The habit of the bush resembles the Splendens type but, unlike Splendens, produces a plume. The bush is well covered with these plumes of the most intense, dazzling scarlet. As a cut-flower for vases one plume alone makes a delightful decoration. Comes 75 per cent true from seed, and stands the weather as well as all the other Salvias. **Pkt. 25c., 5 pkts. \$1.**

Bouquet Rose. A splendid new variety, with beautiful, carmine-rose flowers. The individual blooms are very long, being fully half an inch longer than any of the red varieties. Makes an ideal cut-flower. **Pkt. 25 cts., 5 pkts., \$1.**

SWEET WILLIAM, SCARLET BEAUTY

An intensely rich, deep scarlet selection out of Pink Beauty, almost identical in color with the Poinsettia. A really grand advance. **Pkt. 15 cts., 2 pkts. 25 cts.**

ZINNIA (Giant Double-Flowering)

This Zinnia is a wonderful improvement over the dwarf double-flowering for size of flower and general vigor of the plant. Trials of this Zinnia sown in the open ground in April produced flowers 6 inches in diameter on plants 2 to 2½ feet high. A splendid companion to our Giant Double African Marigold, listed on the preceding page. If sown in the open ground in April, thin out as soon as the plants are well up, leaving at least 18 inches each way, as they are robust growers and require a large amount of space to attain maximum size.

	Pkt.	Oz.
Tall Giant Double White.....	25	\$2 00
Tall Giant Double Rose.....	25	2 00
Tall Giant Double Crimson.....	25	2 00
Tall Giant Double Scarlet.....	25	2 00
Tall Giant Double Yellow.....	25	2 00
Tall Giant Double Mixed.....	25	2 00

Zinnia, Haageana Perfection. This variety has been one of the most satisfactory border plants we have ever had the pleasure of seeing. Seed sown in the open, May 1, came into flower June 30, and continued blooming until frost. The plants are of dwarf, compact growth, 9 to 10 inches high and of the same width through, with fine foliage, and bear a mass of very double flowers about 1½ inches across and of a most unusual range of colors—rose-tipped canary-yellow, maroon-tipped cream, yellow, wallflower-red and garnet. We recommend this as an excellent border annual for display as well as cutting. **Pkt. 15 cts., 2 pkts. 25 cts.**



GIANT DOUBLE-FLOWERING ZINNIAS

Five Fine Spencer Sweet Peas

Fiery Cross

This variety has all the appearance of live fire, the color being a scorching fire-red, or scarlet, without any shading, and which scintillates and glitters in the bright sunlight, thus adding a glowing, fire-like sheen which radiates over the flower. Unlike most of the orange-scarlet varieties, it does not scorch or burn even during extended periods of intense sunshine, therefore it can be grown in all soils without shading. The beautifully waved and fluted flowers are borne freely in threes and fours, well placed on long, stout stems. **Pkt. (30 seeds) 25 cts., 5 pkts. \$1.**

Cherub

This is much more beautiful than any picotee-edged Sweet Pea hitherto known. The ground color is a deep creamy buff, or rich cream, charmingly edged with bright rose. The vines are of extra-strong growth, bearing the gigantic flowers profusely on the ends of long stems, generally in threes, with a good percentage of fours. **Pkt. (30) seeds, 25 cts., 5 Pkts. \$1.**

Margaret Atlee

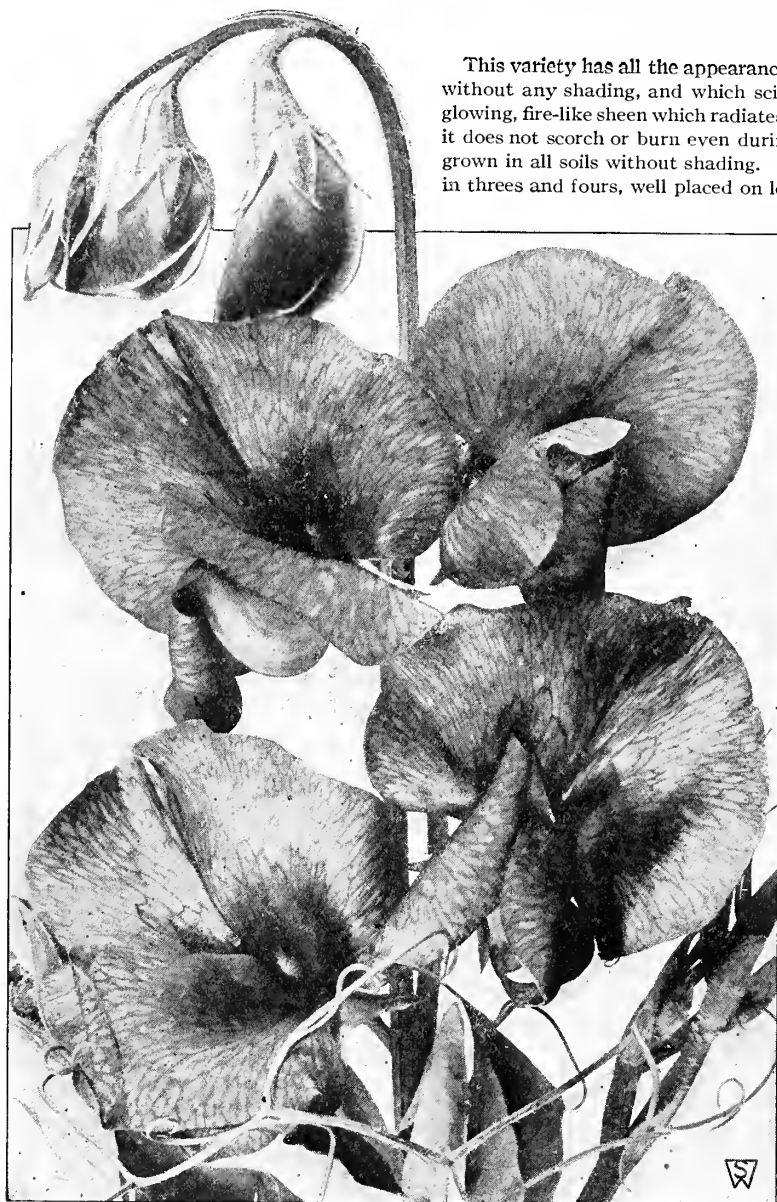
This charming novelty is acknowledged by leading experts of America and England to be the best cream-pink yet obtainable. It is practically a new shade of pink. The lovely flowers, uniformly of most advanced Spencer type, are a rich glowing pink on cream ground, softly suffused with salmon in the standard, while the wings are a pleasing shade of pinkish rose and salmon. There is a distinct blotch of buff-primrose at the base of both standard and wings, which is particularly effective, giving a light, bright appearance to the entire flower. **Pkt. 20 cts., oz. 60 cts., 1/4lb. \$2.**

Royal Purple

This variety, introduced last year, has been exhibited at several of the Sweet Pea Exhibitions, and has been very favorably commented upon. In color it is a rich, royal purple, which is retained throughout the life of the flower, and at no time does the objectionable blue-purple color show up. **Pkt. 20 cts., oz. 75 cts., 1/4lb. \$2.50.**

Wedgwood

While this variety is strictly a novelty, our grower assures us of a strain superior to most others offered. A clear, bright, silvery blue, with a faint suggestion of mauve in the standard; quite the best blue. A remarkable feature of this variety is that when cut and placed in water, the color brightens as the flower ages. **Pkt. 20 cts., oz. 75 cts., 1/4lb. \$2.50.**



Royal Purple Sweet Peas

Ten Select Spencer Sweet Peas

COLLECTION, 1 pkt. each, 10 varieties, 75 cts.
If purchased separately, would cost \$1.50

Frequently the amateur, who is not desirous of growing a great many varieties of Sweet Peas, requests us to prepare a collection of ten best sorts. We have decided to offer a suggestive list as a Special Offer. Ten regular-size packets, one each of the following varieties, for 75 cts., which, if purchased separately, from our catalogue, would cost \$1.50.

WHITE. King White
BICOLOR. Mrs. Cuthbertson
BLUE. Wedgwood

SCARLET. Vermilion Brilliant
PALE PINK. Elfrieda Pearson
DEEP PINK. Countess Spencer

CARMINE. George Herbert Spencer
MAROON. Othello Spencer
LAVENDER. Florence Nightingale
ORANGE. Helen Lewis

Giant Waved or Spencer Sweet Peas

In order to make it less difficult for the amateur or professional gardener to choose varieties according to color and shades, we have prepared the following classification of all Spencer Sweet Peas listed on pages 8 and 69 of our catalogue.

White

	Pkt.	Oz.	¼lb.
Etta Dyke. Good white.....	\$0 10	\$0 35	\$1 25
King White. Finest white.....	20	75	2 50
White Spencer. Fine white.....	10	30	1 00
Constance Hinton. The best black-seeded White Spencer.....	20	1 00	

Pink

Agricola. Blush-pink, suffused lilac.....	20	60	2 00
Countess Spencer. Bright pink.....	10	30	1 00
Elfrida Pearson. Magnificent pale pink.....	15	50	1 50
Florence Morse Spencer. Blush-pink.....	10	30	1 00
Hercules. A glorified Countess Spencer.....	20	60	2 00
Margaret Atlee. Warm salmon-pink, exquisite color.....	20	60	2 00
Mrs. Hardecastle Sykes. Beautiful blush-pink.....	20	60	2 00
Mrs. Hugh Dickson. Beautiful cream-pink.....	15	50	1 50
Mrs. Routzahn. Soft straw-color, tinted blush-pink.....	10	35	1 25
W. T. Hutchins. Blush-pink.....	10	30	1 00

Orange

Fiery Cross. A splendid orange-scarlet.....			
5 pkts. \$1...	25		
Helen Lewis. Orange-salmon-pink.....	10	35	1 25
Thomas Stevenson. Darker and more dazzling than Helen Lewis. Fine orange-scarlet.....	20	60	2 00

Salmon

Barbara. Rich, glowing orange-salmon.....	15	50	1 50
Stirling Stent. Glorious deep salmon.....	15	50	1 50

Scarlet

Vermilion Brilliant. Brilliant scarlet.....	20	60	2 00
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Crimson

King Edward Spencer.	10	35	1 25
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Carmine

Decorator. The general tone is a deep carise.....	20	75	2 50
George Herbert Spencer. Rosy carmine.....	10	35	1 25

Maroon

Nubian. Best maroon.....	15	50	1 50
Othello Spencer. Glossy maroon.....	10	30	1 00

Lavender

Asta Ohn. Beautiful soft lavender.....	10	35	1 25
Florence Nightingale. Rich lavender, soft pinkish sheen; exquisite.....	10	50	1 50
R. F. Felton. Somewhat similar in color to the above variety.....	20	75	2 50

COLLECTION, 1 packet each of 49 varieties, 49 packets

Blue

	Pkt.	Oz.	¼lb.
Margaret Madison. Clear azure-blue; an exquisite variety.....	\$0 20	\$0 60	\$2 00
Wedgwood. Bright silvery blue, with a faint suggestion of mauve in the standard.....	20	75	2 50

Mauve

Tennant Spencer. A curious purplish mauve.....	10	30	1 00
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Purple

Captain of the Blues Spencer. Pure purple; margin of petals marbled.....	15	50	1 50
Royal Purple. Our novelty of last year; the finest, rich, royal purple.....	20	75	2 50

Picotée-Edged

Blue Picotée. White ground with a picotée edge of pale blue.....	25		
Dainty Spencer. White ground, beautiful picotée edge of rose-pink.....	10	35	1 25
Mrs. C. W. Breadmore. Cream ground, beautiful picotée edge of pink.....	15	50	1 50
Mrs. Townsend. White ground, edged pale blue.....	15	50	1 50

Primrose

Dobbie's Cream. Deep cream-yellow; exquisite.....	20	60	2 00
Primrose Spencer. Beautiful primrose.....	15	50	1 50
Queen Victoria Spencer. Opens blush and turns to clear primrose.....	10	30	1 00

Bicolor

Mrs. Cuthbertson. The finest pink-and-white variety; standard rose-pink, wings white.....	20	60	2 00
Blanche Ferry Spencer. Good pink-and-white; standard rose, wings white.....	10	30	1 00

Fancies, Pastel Shades

Afterglow. Standard bright violet-blue, shading to rosy amethyst; wings electric blue...	20	60	2 00
Charles Foster. General effect of the flower is a mauve-pink.....	20	60	2 00

Striped and Flaked

America Spencer. White ground, mottled and flaked crimson.....	10	30	1 00
Aurora Spencer. White ground, striped and flaked orange-pink.....	10	35	1 25
Jessie Cuthbertson Spencer. Ground-color rich cream, overlaid with stripes and marblings of bright rose-pink.....	20	75	2 50
Loyalty. Ground-color white, striped blue....	10	35	1 25
Senator Spencer. Chocolate and seal-brown striped and flaked on ivory-white.....	10	30	1 00

\$6, postpaid

Recent Novelties and Specialties in Vegetable Seeds

Beet, S. & W. Co.'s

New Globe

This new Beet is almost globe-shaped, tapering somewhat toward the root. The flesh is dark red, sweet and tender at all stages of growth regardless of size. The tops are green—all the color remains in the Beet. Store it in a cellar or pit until the spring, and it will cook more tender and sweet than ordinary varieties will when taken from the garden. Pkt. 10 cts., oz. 30 cts., $\frac{1}{4}$ lb. \$1, lb. \$3.

Bean, Sure-Crop Stringless Wax

A valuable new variety of dwarf Wax Bean. The plant grows to medium size, and, having a strong, thick stem, stands up well even during a long season of stormy weather, thus protecting the pods from dirt and dampness. It is very productive, bearing in great abundance large, handsome, golden yellow pods which are stringless and tender at all stages of development. Being very hardy, the seed may be planted early. **Sure Crop** is more rust-proof and will stand a longer season of damp, wet weather than any other Wax Bean we know of. Pkt. 15 cts., pt. 25 cts., qt. 40 cts., $\frac{1}{2}$ pk. \$1.40, pk. \$2.50.

Cabbage, Copenhagen Market

The best of all early Cabbages. Stands longer without bursting than other early sorts. It is with pleasure and confidence that we offer this new early Cabbage, knowing it will give perfect satisfaction wherever grown, both as to quality and yield. Everyone familiar with the Cabbage knows the old and popular Danish Ballhead, the best of all the late Cabbages. This new extra-early variety, ripening with Charleston Wakefield, also originated in Denmark, and is as good, in its class, as the old favorite Danish Ballhead. The stem is short, the head round and solid. When ready for cutting, Copenhagen Market is the heaviest of the extra-early varieties, and if left until fully mature, frequently weighs eight to ten pounds. The leaves are small, compact and close to the head, so it will stand close planting. The inside is fine-grained, tender, pure white and compact. Will become a leader in the home garden and market. Pkt. 10 cts., $\frac{1}{4}$ oz. 15 cts., oz. 50 cts., $\frac{1}{4}$ lb. \$1.40, lb. \$5.

Carrot, S. & W. Co.'s Improved

Long Red Surrey

A great improvement on the various types of Long Orange Carrot, obtained by a careful selection for successive years of the best-formed and deepest-colored roots; it is larger, better flavored, of a deeper orange-color, and more certain to produce a crop than any type of long Carrot; flesh very sweet and tender; very productive, and never becomes hard or woody at the heart. The roots grow very regular and smooth; they are of good size, being from 6 to 8 inches in length and 2 inches in diameter at the top, tapering gradually from the shoulder to the tip of the roots. In color, shape and size this is the ideal sort for a market-gardener's late crop, and it will always bring the highest prices in market. On account of its prolific growth it will prove a most profitable Carrot. Pkt. 10 cts., oz. 25 cts., $\frac{1}{4}$ lb. 75 cts., lb. \$2.50.

Carrot, Sutton's

New Red Intermediate

This excellent Carrot needs no recommendation. It is handsome in form, and as it is of fine color and texture it is well suited for exhibition. In flavor this Carrot has no superior, and for all the purposes to which Carrots are put it will be found one of the most desirable ever listed. These qualities also commend it as a most profitable market variety, as Carrots of this type are always eagerly sought for and bring the highest prices. Pkt. 10c., oz. 25c., $\frac{1}{4}$ lb. 75c., lb. \$2.50.

Corn, Early Mayflower

Is fully a week or ten days earlier than White Cory; and when we say that in size of ear, tenderness and sweetness of the kernels it is very noticeably superior to White Cory, we think we have said enough to indicate that the variety has distinct merits. The ears are long and well filled from tip to butt with large, tender, fine-flavored, white kernels $\frac{1}{2}$ pt. 20 cts., pt. 30 cts., qt. 50 cts., pk. \$3.50.

Celery, S. & W. Co.'s

Invincible White

A Celery that has proved to be one of the best varieties for exhibition and culinary use. It can be grown for exhibition to enormous size without running to seed or losing its fine qualities. When prepared for the table, it is handsome in appearance and the stalks are crisp, tender, free from strings and of extra-fine flavor. Pkt. 25 cts., 5 pkts. \$1.

Leek, S. & W. Co.'s

Exhibition

A splendid Leek for exhibition purposes. Thick, pure white stems. This Leek has been grown by a special grower, and is the finest it is possible to procure. It is of finer flavor than any Leek we have ever seen. Pkt. 25 cts., 5 pkts. \$1.

Pe-Tsai, Chinese or "Celery"

Cabbage

Pe-Tsai produces beautiful, crisp, celery-like heads that somewhat resemble Cos Lettuce. It blanches easily and as a salad it rivals the finest lettuce, while, cooked like cabbage or spinach, it makes delightful greens. Early sowing is not recommended, as during hot weather it has a tendency to run to seed without heading. Sow seed in any good soil the first of August, making rows 24 to 36 inches apart and thinning to 15 inches apart in the row. Pe-Tsai will not stand frost, so that heads intended for winter use should be stored in a cool frostproof cellar. Pkt. 10 cts., oz. 35 cts., $\frac{1}{4}$ lb. \$1.

Royal Jubilee Forcing

Muskmelon

A splendid, oval, green-fleshed melon, raised at the Royal Gardens, Windsor. Skin almost white, handsomely netted. The flesh is tender and of the most exquisite flavor. Pkt. of 25 seeds, 50 cts.

S. & W. Co.'s Invincible White Celery

Onion, Gigantic Gibraltar

This Onion, introduced some years ago by W. Atlee Burpee & Co., of Philadelphia, is worthy of a trial. Our observation of this variety is that while it does not come up to the ideal shape of Ailsa Craig, being somewhat more flattened, it seems to have a longer growing season. Has been exhibited at a number of the autumn flower shows this year; in some cases the Onions weighed three and one-half pounds, and were quite the largest we have ever seen. While this maximum size may be more easily attained in such sections as Lenox, Mass., comparative tests show that from an exhibition standpoint its longer period of growing warrants a trial against the favorite Ailsa Craig. It is somewhat similar in appearance to Prizetaker, except that it is lighter in color and, while larger in size, is a splendid keeper and of decidedly mild flavor. Intending exhibitors at the fall, 1917, flower shows should include this variety in their seed order. Pkt. 10 cts., oz. 25 cts., ¼lb. 75 cts., lb \$2.50.

Parsley, S. & W. Co.'s Exhibition Curled

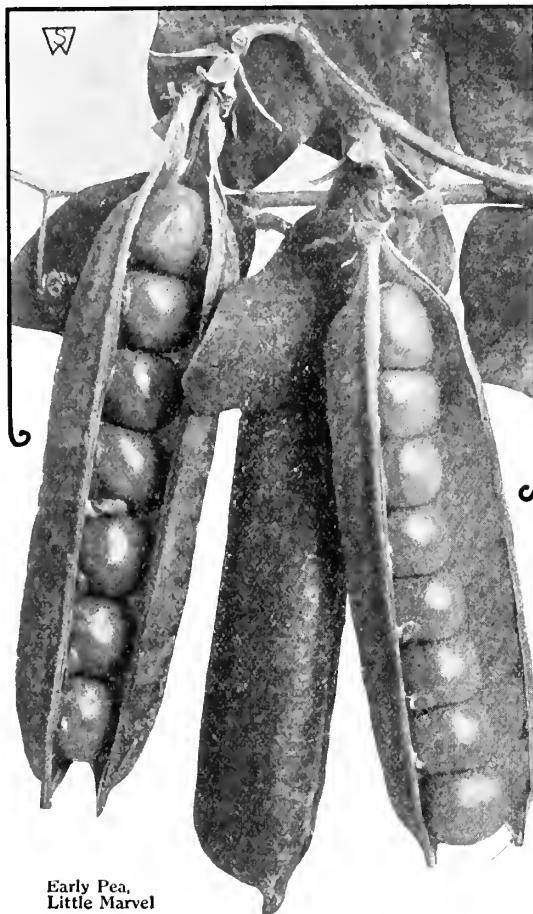
This Parsley is recognized as a splendid exhibition sort. It is remarkable for its fine leaves and close habit. In flavor it is finer than that of any known root, and very tender. The seed offered has been saved from exhibition plants only, every one of which is a perfect specimen. For garnishing the exhibition table, this will be found one of the best. Pkt. 25 cts., 5 pkts. \$1.

Parsnip, S. & W. Co.'s Selected

A splendid Parsnip for exhibition purposes. This variety, grown by a very successful exhibitor, was pronounced quite the best of five varieties sent for exhibition purpose. It is superb in form, of a beautiful pearly white color. Pkt. 25 cts., 5 pkts. \$1.

Perfection Pimiento Pepper

One of the best for the home garden, both green and ripe. It is so smooth and uniform in shape that the skins can be easily slipped off after heating over a hot fire a few seconds or by boiling a few minutes in hot water. It can also be pared like an apple by using a sharp knife. The green Peppers can be pared best in this way. The hull or meat is from two to three times as thick as that of the Bell types, and yields about a half more edible product to the same measurement. The quality is very sweet and delicious and entirely free from pungency. In color, when ripe, it is a beautiful scarlet-red. It is very productive, yielding heavy crops until cut off by frost. The illustration taken from a photograph of an average-sized specimen, shows the general form of the Perfection. In consequence of the many superior and valuable qualities of this Pepper it will be much sought and grown by canners for pimientos, pickles and pulp. Pkt. 20 cts., ½oz. 40 cts., oz. 75 cts.



Early Pea,
Little Marvel

Early Pea, Little Marvel

A first-early Pea of the finest quality, better than American Wonder or Nott's Excelsior. The vines of dwarf, even growth average 15 inches high, and are heavily set with fine pods, usually in pairs. The pods average 2½ inches in length, are square at the bottom, and are well filled with quite large, deep green Peas. Ready for picking fully as early as American Wonder, but the pods are larger and the vines bear a much heavier crop. All who desire a fine crop of an early, choice variety of Peas will be delighted with Little Marvel. ½pt. 15 cts., pt. 25 cts., qt. 40 cts., pk. \$2.75.

Potato, Early White Albino

This wonderful new early Potato is a good cropper. The skin and flesh are extremely white; of exceptionally good cooking quality and very prolific, fully as early as the old Early Rose in maturing, and particularly valuable for the early market by reason of its fine shape and early maturity. The vines grow erect, and it is one of the best early varieties to withstand blight and disease. Plant this Potato early in good soil and give it good cultivation, and pleasing results are sure at harvest time. One grand thing in favor of this early Potato is its great keeping quality. Pk. \$1.50, ½bus. \$2.50, bus. \$4.50, bbl. \$10.

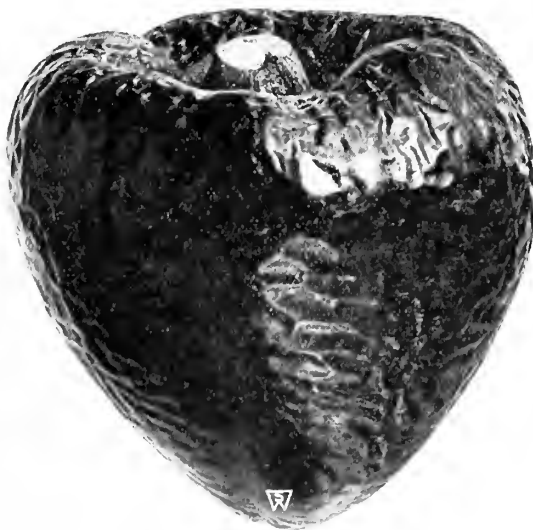
Spinach, New Zealand

Spinach does not grow well.

The seed is sown either in a hotbed or open ground during May, where the plants are to stand, and the plants will continue to yield a supply of leaves during the entire summer. The leaves are eaten boiled and minced like ordinary Spinach. It might be called "Cut-and-Come-Again" Spinach, as it is a continuous bearer. Pkt. 5 cts., oz. 10 cts., ¼lb. 30 cts., lb. \$1.

TOMATO S. & W. CO.'S IDEAL

This Tomato combines earliness, ideal shape and size. After many years of hard work and careful selection of seed stock, our grower has found it possible to produce a typical early Tomato of correct shape that colors up beautifully to the stem. The fruit is medium to large and is produced in immense clusters. In color it is a beautiful glossy rose, giving it a most inviting appearance; the flesh is firm, contains few seeds and is excellent for slicing. Its correct shape and superior qualities make it a great favorite. Pkt. 20 cts., ½oz. 50 cts., oz. 80 cts., ¼lb. \$2.50.



Perfection Pimiento Pepper

Stumpp & Walter Co.'s Vegetable Seeds

It has always been our endeavor to list only such sorts of Vegetable Seeds as, from our tests, we have found to be of superior merit; and, while we have in many instances not listed certain varieties, which have been stricken out on account of being out of date, we have in every instance listed a superior sort which we can recommend as being more satisfactory both for the market and the home garden.

WE STRONGLY RECOMMEND ALL VARIETIES LISTED IN BOLD TYPE

ASPARAGUS ROOTS

The demand for Asparagus as an early spring vegetable is becoming quite popular. It is generally thought that it requires too much space for growing, but a plot 10 feet wide and 30 feet long will be sufficient to plant 100 of our Mammoth 3-year-old roots, sufficient for an ordinary family. The roots should be planted, as they will yield Asparagus the following year.

CULTURE.—Dig a trench, 1½ feet deep and 1 foot wide, and fill in about 4 inches with well-rotted manure, tread down firmly. On this put about 5 inches of good, rich soil, and then lay the roots in, about ½ foot apart, taking care to spread well, having the crown in an upright position. Cover to within 4 inches of the top of the trench and, as the plants grow, gradually fill the trench to the surface. For spacing between the rows allow 1 foot.

Conover's Colossal, Columbian Mammoth White and

Palmetto

	100	1,000
Selected One-Year Roots	\$0 75	\$6 00
Extra-choice Two-Year Roots	1 50	10 00
Mammoth Three-Year Roots	2 50	20 00

FORCING CROWNS, see page 86

ASPARAGUS SEED

One ounce will plant about 50 feet of drill

Conover's Colossal. A mammoth green sort of the largest size and of good quality. The best of the old kinds. Pkt. 5 cts., oz. 10 cts., ¼lb. 15 cts., lb. 40 cts.

Columbian Mammoth White. A sport from Conover's Colossal. It produces pure white shoots and requires no artificial blanching. Pkt. 5 cts., oz. 10 cts., ¼lb. 20 cts.

ARTICHOKE

One ounce will produce 500 plants

The scales and bottom of the flower-heads are eaten, either boiled or raw, as a salad. The young suckers are sometimes tied together and blanched and served in the same manner as asparagus. The plants thrive best in deep, rich soil where the water will not lodge in winter-time. Sow seeds indoors, and pot up similar to tomatoes, setting out in May, in rows 3 feet apart, leaving 2 to 3 feet between the plants. Some flower-buds may be had the first year. Cover with ashes and leaves in winter. Usually bears best the second year.

Large Green Globe. The best variety. Pkt. 10 cts., oz. 50 cts., ¼lb. \$1.50.

ARTICHOKE ROOTS

Jerusalem Artichoke. Distinct from the Globe, and propagated by and for the tubers. Plant in rows, 3 feet apart and 1 foot apart in the row, and cultivate occasionally. Allow the tubers to remain in the ground until needed. Used for feeding stock or pickling. Qt. 25 cts., pk. \$1.25.

Forcing Crowns of Asparagus, Rhubarb, Sea Kale, and Witloof Chicory easily forced for the table. See page 86.



Asparagus,
Conover's Colossal

LIMA BEANS (Pole)

One quart will plant 100 hills

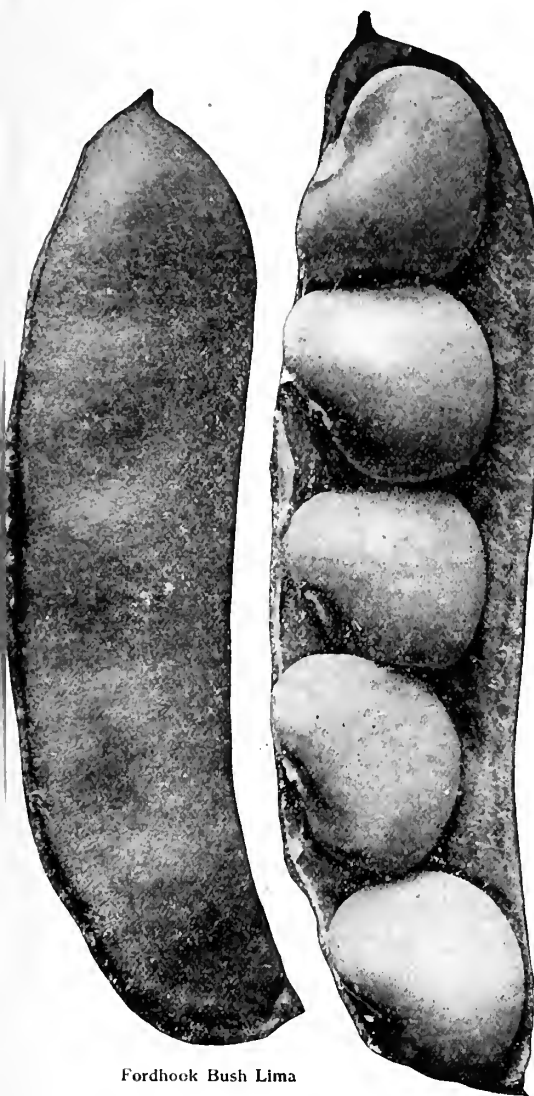
CULTURE.—Lima, or Shell Beans are not to be planted too early or they will rot; May 20 to June 1 in the latitude of New York is about right. Put five or six seeds in hills three to four feet apart each way, placing them edgewise with the eye downward and covering two inches deep. They require a pole seven feet high, and a nice warm loam. Pinch back when the vine reaches the top of the pole and the yield will be increased. They may be started early under glass in small boxes, and transplanted about the time the seeds are usually planted. Limas are the most popular table bean; surplus stock may be ripened and dried for winter use.

S. & W. Co.'s Green-Seeded. The vine is very strong, of vigorous growth, with many large runners or branches, producing a great many fine pods which are closely filled with large beans. In shape these beans are similar to Burpee's Improved. The pods contain from three to four beans, a large proportion containing four. This is a broad-seeded Bean, much thicker than the ordinary Pole Lima. It is a plump, well-developed seed and comes nearer to having every bean perfect than any other Pole Lima. The green tint is a distinctive feature of this Bean, for it retains this tint in the dry state to a greater extent than usual, which indicates the fine qualities which it possesses, being fine-flavored and more tender when cooked than white-seeded Beans, and making it more pleasing to gardeners and housekeepers. It is the most perfect Pole Lima. Pkt. 10 cts., pt. 20 cts., qt. 35 cts., pk. \$2.50.

Early Levian. The earliest variety of Pole Lima; produces pods in clusters. A splendid variety where the season is short. $\frac{1}{2}$ pt. 15 cts., pt. 25c., qt. 40 cts., pk. \$2.75.

Challenger, or Potato. Early and more prolific than the large Lima; a small Bean of decidedly excellent flavor. $\frac{1}{2}$ pt. 10c., pt. 20c., qt. 35c., pk. \$2.

Ford's Mammoth. Very large pods, frequently measuring 9 inches long; beans flat and large; fine for the home garden; productive and of good flavor. $\frac{1}{2}$ pt. 15 cts., pt. 25 cts., qt. 40 cts., pk. \$2.75.



Fordhook Bush Lima

LIMA BEANS (Dwarf Bush)

One quart will plant 200 feet of drill

Plant in light, rich soil, in drills 2 feet apart, dropping the seeds about 1 foot apart in the row and cover 2 inches.

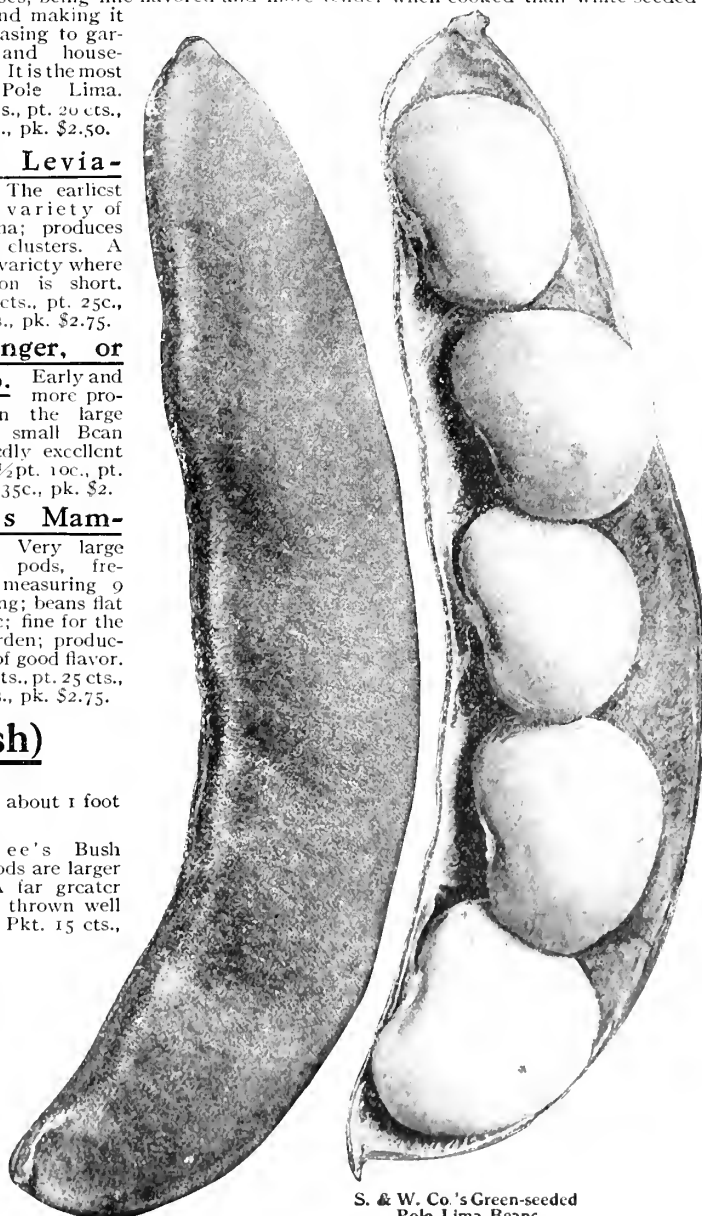
New Improved Bush Lima. Similar to Burpee's Bush Lima except that pods are larger in size and are well filled with larger and thicker beans. A far greater producer, growth more vigorous, the blossom-bearing stalks are thrown well out of the foliage, and are ready for picking a full week earlier. Pkt. 15 cts., pt. 30 cts., qt. 50 cts., pk. \$3.

Fordhook. A more erect form of the popular Challenger or Potato Lima, and ten days earlier. Both pods and beans are almost twice the size of the Kumerle or Dreer's Bush Lima. Pods measure 4 to 5 inches, frequently containing four fine beans of the finest flavor. Pkt. 15 cts., pt. 25 cts., qt. 40 cts., pk. \$2.50.

Henderson's Bush Lima. Early and very productive. Pkt. 10 cts., pt. 20 cts., qt. 35 cts., pk. \$2.25.

Burpee's Bush Lima. A bush form of the large Pole Lima, the beans being large and flat like those of that variety. Productive and good. Pkt. 10c., pt. 20c., qt. 35c., pk. \$2.25.

Dreer's Bush Lima. The bush form of Dreer's Improved Lima, the beans growing close together in the pods. Pkt. 10c., pt. 20 cts., qt. 35 cts., pk. \$2.25.



S. & W. Co.'s Green-seeded Pole Lima Beans

DWARF or BUSH BEANS

One quart will plant
200 feet of drill

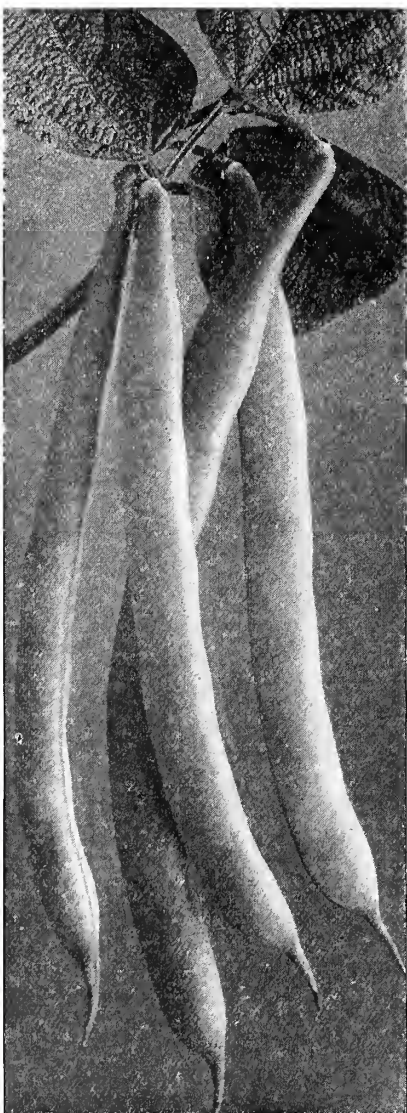
CULTURE.—Plant about the first of May in rows, placing the seeds 4 to 5 inches apart in drills and about 2½ inches deep. The rows should be about 2½ feet apart, and the soil slightly hilled, to insure good drainage and keep the Beans from touching the ground. Most Beans should be picked when about 4 inches long. Frequent pickings insure a more prolonged bearing season. Avoid jerking the plant, as this frequently disturbs young feeding roots. Use the finger-nails to sever the stems. Do not pick when bushes are wet, as this may cause blight and rust. For succession, plant every two weeks up to August 1.

GREEN-PODDED BEANS

Packets or half-pints of the following varieties, 15 cts. each, postpaid

Bountiful. To this Bean belongs the distinction of being one of the best **flat, Green-podded Bush Beans**; very prolific and a continuous bearer from early spring to late fall. It is absolutely stringless, tender and of delicious flavor. Is as entirely stringless as the breeder has been able to make a flat, green-podded Bean. Its pods contain a little more fiber than Stringless Green-Pod of like age, but they average large and are entirely stringless until they become longer than 5 inches. By far the earliest of all the Bush Beans. Pt. 25 cts., qt. 40 cts., pk. \$2.50.

Stringless Green-Pod. This Bean remains among the very best first-early round-podded Bush Beans. A very free bearer; entirely stringless, averages 5 inches long and is slightly curved. A handsome sort, borne on a healthy plant which stands dry weather well. Pt. 20 cts., qt. 35 cts., pk. \$2.25.



Bountiful Beans

Giant Stringless Green-Pod. Pods greatly resemble those of Stringless Green-Pod. Fully an inch longer in size but not quite so early. A variety that is largely grown for the market on account of its size and splendid shape. Splendid sort for succession when planted with Stringless Green-Pod. Pt. 25 cts., qt. 40 cts., pk. \$2.50

Black Valentine. A Bean which has been planted extensively in the South on account of its heat-resisting qualities. Matures early, producing long, round, straight pods, which are tender when quite young. Few Beans are greater yielders. Pt. 25 cts., qt. 40 cts., pk. \$2.50.

Early Red Valentine. This variety is valuable on account of its earliness. Pods very fleshy, round and saddle-backed, with slight strings. Bushes grow uniformly about 15 inches in height and produce a large crop. Pt. 20 cts., qt. 35 cts., pk. \$2.25.

Early Long Yellow Six Weeks. The pods are flat, 6 inches long; light green; very little flesh; inclined to become stringy; splendid flavor if picked early. Pt. 20 cts., qt. 35 cts., pk. \$2.25.

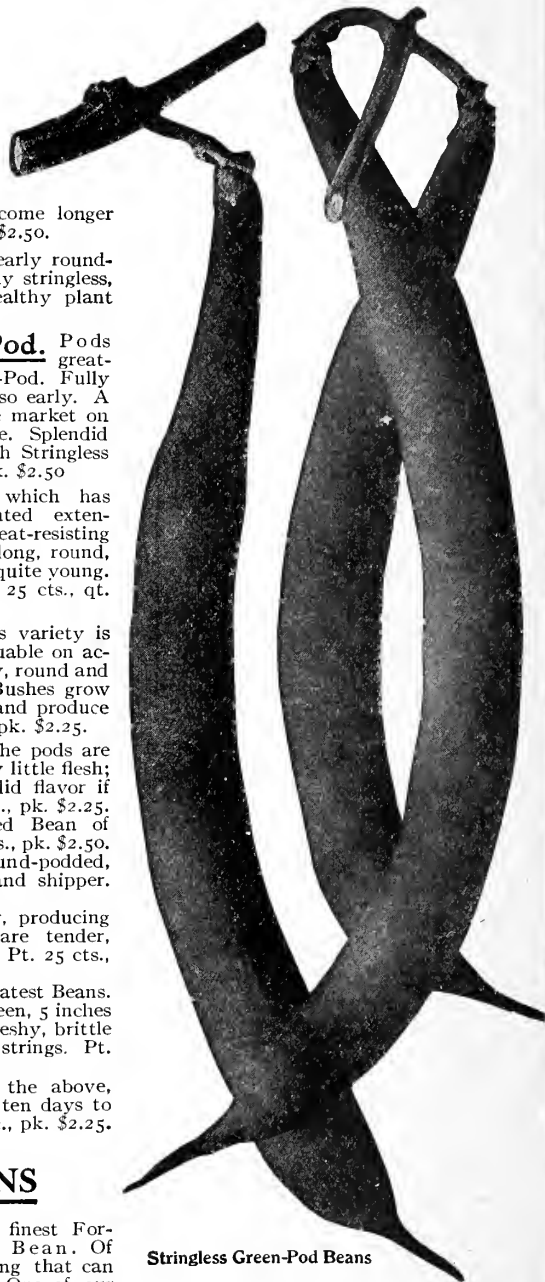
Early Mohawk. Early, flat-podded Bean of sturdy growth. Pt. 25 cts., qt. 40 cts., pk. \$2.50.

Full Measure. A splendid, round-podded, stringless Bean. A good keeper and shipper. Pt. 25 cts., qt. 40 cts., pk. \$2.50.

Longfellow. An extra-early variety, producing long, round, green pods which are tender, brittle and stringless when young. Pt. 25 cts., qt. 40 cts., pk. \$2.50.

Refugee, or 1,000-to-1. One of the latest Beans. The pods are nearly round, light green, 5 inches long, tapering to a slender point; fleshy, brittle and mild in flavor, with but slight strings. Pt. 25 cts., qt. 40 cts., pk. \$2.50.

Refugee Extra-Early. Similar to the above, except that it is ready for picking ten days to two weeks earlier. Pt. 20c., qt. 35c., pk. \$2.25.



Stringless Green-Pod Beans

FORCING BEANS

S. & W. Co.'s Wonder. The finest Forcing Bean. Of good color, fine flavor and everything that can be expected in a good table Bean. One of our customers says regarding this Bean: "The Beans you gave me to try are a wonder. I sowed them February 3, in a solid bed without bottom heat, and picked from them March 20. The Beans average 5 to 6 inches, the vine is a very abundant bearer, and as for eating, I think it is the best Bean I have ever eaten." ½pt. 20 cts., pt. 35 cts., qt. 60 cts.

Masterpiece. The plant is of splendid constitution, a quick grower and very prolific, the Beans attaining over 7 inches in size, tender, straight, entirely stringless, very meaty. As a quick grower, Masterpiece will be a desirable addition to the varieties adapted for pot culture, or for exhibition. ½pt. 30 cts., pt. 50 cts., qt. 75 cts.

NOTICE

At the time this catalog went to the printer the reports of crop conditions warranted the prices printed in this catalog, but owing to almost complete failure in some cases we are obliged to increase to the following prices:

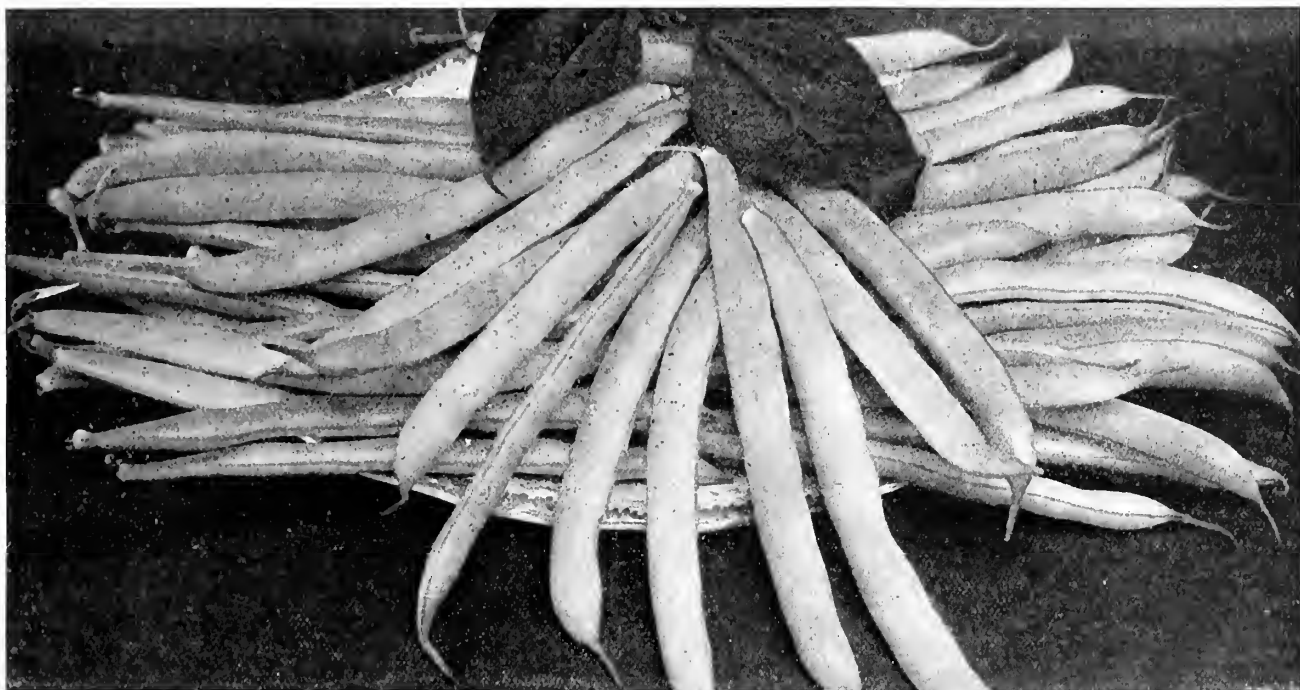
GREEN-PODDED BEANS

	Pkt.	Pint	Quart	½ Peck	Peck
Bountiful	\$0 15	\$0 30	\$0 50	\$1 85	\$3 50
Stringless Green Pod	15	30	50	1 85	3 50
Giant Stringless Green Pod	15	30	50	1 85	3 50
Black Valentine	15	25	45	1 75	3 25
Early Red Valentine	15	20	35	1 30	2 50
Early Long Yellow Six Weeks	15	25	40	1 50	2 85
Early Mohawk	20	35	60	2 30	4 50
Full Measure	15	25	45	1 75	3 25
Longfellow	15	25	45	1 75	3 25
Refugee, or 1,000-to-1	15	25	45	1 75	3 25
Refugee Extra-Early	15	20	35	1 30	2 50

WAX-PODDED BEANS

	Pkt.	Pint	Quart	½ Peck	Peck
Sure-Crop Stringless Wax	\$0 15	\$0 30	\$0 50	\$1 85	\$3 50
New Kidney Wax	20	35	60	2 30	4 50
New Hodson Wax	15	30	50	1 85	3 50
Improved Black Wax	15	25	45	1 75	3 25
Brittle Wax	20	35	60	2 30	4 50
Improved Golden Wax	15	25	45	1 75	3 25
Davis Wax	15	30	50	1 85	3 50
Wardwell's Kidney Wax	15	30	50	1 85	3 50





New Kidney Wax Beans

DWARF or BUSH WAX-PODDED BEANS

One quart will plant
200 feet of drill

New Kidney Wax. More robust in growth and more prolific than the popular Wardwell's Kidney Wax, with longer pods, which are more handsome in appearance, entirely stringless, more fleshy, and of much finer quality. The plants are of erect bush habit, reaching 18 to 20 inches in height. Even during wet summers the foliage is entirely free from blight, while the pods are free from rust, which badly affects many of the older varieties. The fleshy pods are flattened in form, from 6 to 7 inches in length, one-half inch broad and three-eighths of an inch thick; the color is a rich lemon-yellow. Under ordinary field culture the plants produce nearly twice the as many pods as the Wardwell's. The pods are remarkable for their meatiness, fine flavor, brittleness and absolute freedom from strings or tough fiber. Pkt. 15 cts., pt. 25 cts., qt. 40 cts., $\frac{1}{2}$ pk. \$1.40, pk. \$2.50.

New Hodson Wax. A distinct type of excellent quality, bearing enormous quantities of tender, fleshy pods of a creamy yellow color. The plant is vigorous, and comes into crop about two weeks later than the early sorts. The pods of this variety often measure 7 to 8 inches in length, and are remarkably free from spot or rust. Pkt. 15 cts., pt. 25 cts., qt. 40 cts., $\frac{1}{2}$ pk. \$1.40, pk. \$2.50.

Improved Black Wax. Perfectly round pods; very early and a good yielder. A Bean that is extensively grown and does not leave much to be desired as an early wax-podded sort. Pkt. 15c, pt. 25c., qt. 40c., $\frac{1}{2}$ pk. \$1.40, pk. \$2.50.

Brittle Wax. Without a doubt the earliest of all Wax Beans; also a great cropper. The bushes are remarkably hardy and extremely prolific, while the pods are fleshy and entirely stringless, often measuring $4\frac{1}{2}$ to 6 inches long. They are broad and solid, tender, brittle and entirely stringless at all stages of growth. The pods have white seeds showing only a small black dot at the eye and where a surplus is allowed to fully ripen they make excellent shell beans. Pkt. 15 cts., pt. 25 cts., qt. 40 cts., $\frac{1}{2}$ pk. \$1.40, pk. \$2.50.

Improved Golden Wax. Very early; flat, golden pods. Pkt. 15 cts., pt. 20 cts., qt. 35 cts., pk. \$2.25.

Davis Wax. A very hardy and productive variety, desirable where a wax-podded, white-seeded midseason sort is wanted. Vines very vigorous. Pods invariably long, 6 $\frac{1}{2}$ or 7 inches, light yellow, straight and handsome and when young are crisp and tender. Seed medium large, kidney-shaped, clear white and excellent for baking. Pkt. 15 cts., pt. 25 cts., qt. 40 cts., $\frac{1}{2}$ pk. \$1.40, pk. \$2.50.

Wardwell Kidney Wax. Extra early; long, flat, pure waxy pods. Pkt. 15 cts., pt. 20 cts., qt. 35 cts., pk. \$2.25.

ENGLISH BROAD BEANS

Broad Windsor. The largest of the English Broad Beans, very tender and delicious. Pt. 20 cts., qt. 40 cts., $\frac{1}{2}$ pk. \$1.25, pk. \$2.

POLE or RUNNING BEANS

One quart will
plant 200 hills

Wax- and Green-Podded Varieties

All packets contain a half pint, at 15 cents, postpaid

Improved Kentucky Wonder (Old Homestead). An improved sort of this well-known Bean. The pods are entirely stringless and of silvery green color, hanging in large clusters from top to the bottom of the pole. One of the most prolific. Pt. 25 cts., qt. 40 cts., $\frac{1}{2}$ pk. \$1.40, pk. \$2.50.

Golden Cluster. This is certain to be the leading early Wax Pole Bean, as it is fully two weeks earlier than Golden Champion Wax. Pods are tender and of fine flavor. Pt. 25 cts., qt. 40 cts., $\frac{1}{2}$ pk. \$1.40, pk. \$2.50.

Horticultural, or Speckled Cranberry. Pods are tender and of excellent quality; good as a snap as well as a shell bean. Pt. 25 cts., qt. 40 cts., $\frac{1}{2}$ pk. \$1.40, pk. \$2.50.

Lazy Wife. The best late, green-podded Pole Bean. The pods are of a medium dark green; broad, thick, very fleshy and entirely stringless. Pt. 25 cts., qt. 35 cts., $\frac{1}{2}$ pk. \$1.25, pk. \$2.25.

Scarlet Runner. Bright scarlet flowers. Both used as a string and a shell bean. Pt. 20 cts., qt. 35 cts., $\frac{1}{2}$ pk. \$1.25, pk. \$2.25.

White Dutch Runner. Beans large; flat pods. Pt. 25 cts., qt. 40 cts., $\frac{1}{2}$ pk. \$1.40, pk. \$2.50.

BEETS

One ounce will sow 100 feet of drill; 5 to 6 lbs. to the acre

CULTURE.—Seed should be sown the latter part of April. The ground should be spaded well and deep, placing rows about 18 inches apart, and the drills 1 inch deep. Cover the seed carefully and firm in the ground by walking over the drills. When seedlings appear about 3 inches above ground, thin out to about 4 inches between the plants so as to give ample room for the proper development of the bulbs. Beets are best for pulling when about 2 inches in size. Successive sowings may be made up to the middle of July.

Five Best Beets

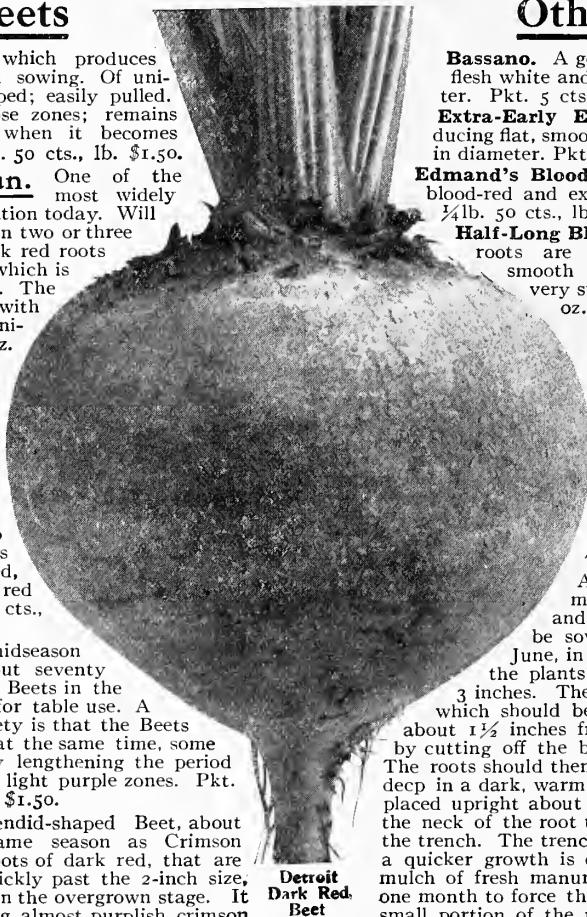
Eclipse. An extra-early sort which produces Beets sixty days from sowing. Of uniform, dark rosy red; flat globe-shaped; easily pulled. Flesh, dark purplish red with rose zones; remains in table condition for ten days, when it becomes tough. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.50.

Crosby's Original Egyptian. One of the most widely grown turnip-shaped Beets in cultivation today. Will produce Beets ready for pulling within two or three days after Eclipse. The smooth, dark red roots are topped with light green foliage, which is prominently speckled with dark red. The flesh is carmine, handsomely marked with white zones, very tender and of uniformly sweet quality. Pkt. 10 cts., oz. 25 cts., $\frac{1}{4}$ lb. 75 cts., lb. \$2.50.

Detroit Dark Red. Extended experience has shown that this Beet comes nearer the ideal than any, and where one variety is used this should be the first selection. The round, dark red globe roots are uniformly smooth. The flesh of the very young Beets is almost black-red, turning to dark crimson with dark purple zones as the Beets grow larger. When cooked, the Beets are of an appetizing dark red and very sweet. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.50.

Crimson Globe. A splendid midseason sort. In about seventy days from planting one-fourth of the Beets in the Crimson Globe row will be ready for table use. A peculiarity of this and the next variety is that the Beets do not all come to the eatable size at the same time, some growing faster than others, thereby lengthening the period of perfection. Flesh bright red with light purple zones. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.50.

Model Red Globe. A splendid-shaped Beet, about the same season as Crimson Globe. This forms symmetrical roots of dark red, that are models of smoothness. It grows quickly past the 2-inch size, and is good for a week to ten days in the overgrown stage. It differs from Crimson Globe in having almost purplish crimson flesh with little indication of zones. Pkt. 15 cts., oz. 25 cts., $\frac{1}{4}$ lb. 60 cts., lb. \$2.



Detroit Dark Red Beet

Other Good Beets

Bassano. A good early turnip Beet; tender and juicy, flesh white and rose. Sown late, it keeps well into winter. Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 40 cts., lb. \$1.25.

Extra-Early Egyptian. Grows extra quickly, producing flat, smooth turnip-shaped roots averaging 2 inches in diameter. Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 40 cts., lb. \$1.25.

Edmand's Blood Turnip. Very regular in shape; deep blood-red and exceedingly sweet. Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.50.

Half-Long Blood. An entirely distinct variety. The roots are symmetrical, somewhat pear-shaped, smooth and handsome; flesh a rich, dark red, very sweet, never becoming woody. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 20 cts., lb. 60 cts.

Sugar Beets and Mangels

See Root Crops, page 38.

CHICORY

Witloof, or French Endive.

The principal use of this variety in America is as a winter salad, and it is most delicious served with French dressing and eaten like Cos lettuce. The seed should be sown in the open ground not later than June, in drills 12 to 18 inches apart, thinning out the plants so that they will not stand closer than 3 inches. The plant forms long, parsnip-shaped roots, which should be lifted in the fall, cutting off the leaves about 1½ inches from the neck and shortening the roots by cutting off the bottoms to within 8 inches of the neck. The roots should then be planted in a trench 16 to 18 inches deep in a dark, warm cellar or under a greenhouse bench, and placed upright about 1½ to 2 inches apart, which will allow the neck of the root to come within 9 inches of the level of the trench. The trench should be filled with a light soil, and if a quicker growth is desired, this can be accomplished by a mulch of fresh manure about 2 feet deep. It requires about one month to force the roots, and the heads are cut off with a small portion of the neck of the root attached. Pkt. 10 cts., oz. 25 cts., $\frac{1}{4}$ lb. 75 cts., lb. \$2.50.

Common, or Wild (Barbe de Capucin). This is the variety from which is obtained the French salad, *Barbe de Capucin*. The roots should be transplanted into sand in a warm cellar. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 60 cts., lb. \$2.

Large-rooted Madeburg. Cultivated for the roots. Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 40 cts., lb. \$1.50.

For French Chicory, or Endive, see page 23.

CRESS, OR PEPPER GRASS

One ounce will sow 100 feet of drill

CULTURE.—This popular salad should be sown early in the spring. The leaves are crisp, tender, and sharp in flavor. Sow at short intervals for succession, as it soon runs to seed.

Curled, or Pepper Grass. Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 40 cts., lb. \$1.

True Erfurt Water Cress. Pkt. 10 cts., oz. 35 cts., $\frac{1}{4}$ lb. \$1.



Chicory, Witloof

BRUSSELS SPROUTS

One ounce will produce about 3,000 plants

CULTURE.—Sow in May, in shallow drills, 1 inch deep and 12 inches apart. Transplant in July. When the crown, or top sprout is beginning to head, pinch it out, to admit of the whole strength being thrown into the side shoots. Very hardy. This is a delicious vegetable and should find a place in every garden; greatly improved by hard frosts.

Improved Dwarf. Compact heads of best quality. Pkt. 5 cts., oz. 20 cts., $\frac{1}{4}$ lb. 60 cts., lb. \$2.

S. & W. Co.'s Favorite. New. Semi-dwarf, thickly covered with sprouts by the end of September; excellent. Pkt. 10 cts., $\frac{1}{2}$ oz. 20 cts., oz. 35 cts.

CHERVIL

One ounce will sow 150 feet of drill

CULTURE.—The curled Chervil is cultivated like parsley and used for garnishing and flavoring soups and salads.

Moss Curled Extra. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.25.

Turnip-rooted. Pkt. 10 cts., oz. 35 cts.



Famous Early Conical Cabbage

CABBAGE

One ounce will produce
about 3,000 plants

CULTURE.—Sow the early kinds in September, in shallow drills, 6 to 8 inches apart. When large enough to handle, transplant into a coldframe. Sow also in hotbeds in February and March, and in the open ground in April and May. The late varieties for fall and winter use sow in May, and transplant from the 8th to the 25th of July. Plant the early sorts 20 inches distant in a row and 2 feet between the rows; the later sorts 2½ feet each way. To be well grown, Cabbages require a deep, rich loamy soil. Our Cabbage seed is especially grown for us on Long Island, and we offer it as being of superior quality.

S. & W. Co.'s Famous Early Conical. An extremely early variety of conical form, quite distinct from any other on the market. An ideal variety for private garden, producing solid hearts sooner than other varieties and requiring less space than most kinds. Pkt. 10 cts., ½oz. 25 cts., oz. 40 cts., ¼lb. \$1.50.

Early Spring. A new extra-early Cabbage, with a round, flat head, coming in with the Early Jersey Wakefield, and yielding one-third more on the same space of ground than any other extra early. Heads are of uniform size and are very solid when young. Pkt. 10 cts., ½oz. 25 cts., oz. 40 cts., ¼lb. \$1.20.

Improved Early Jersey Wakefield. While this variety is not quite so early as S. & W. Co.'s Famous Early Conical, it has been long considered as the best early conical-type Cabbage which we have. The heads are hard and solid with just a few outside leaves, which are unusually thick, enabling them to stand cold weather when wintered in coldframe. Pkt. 10c. ½oz. 20c., oz. 30c., ¼lb. 85c.

Charleston, or Large-Type Wakefield. This type of Cabbage retains all the characteristics of the Improved Early Jersey Wakefield with the added advantage of greater size, where large-sized Cabbage is wanted in this type, either for market or private use. Pkt. 10 cts., ½oz. 20 cts., oz. 35 cts., ¼lb. \$1.

Danish Drumhead. Averages much larger size than the Ballhead; is about two weeks earlier; fine-grained, sweet-flavored, and the best Cabbage for winter use. Pkt. 10 cts., ½oz. 20 cts., oz. 35 cts., ¼lb. \$1, lb. \$3.50.

Succession. A splendid second-early, round-headed sort, with enormous heads of exceedingly tender quality. Pkt. 10 cts., ½oz. 20 cts., oz. 35 cts., ¼lb. \$1.

Autumn King. We believe this to be one of the finest strains of Cabbage ever offered. It produces regular, even heads of enormous size. Pkt. 5 cts., ½oz. 20 cts., oz. 30 cts., ¼lb. 85 cts.

Early Flat Dutch. A valuable early market variety, heads weighing about 10 pounds. Pkt. 5 cts., ½oz. 15 cts., oz. 25 cts., ¼lb. 75 cts.

Early Summer. Superior second-early variety; produces solid heads of fine quality. Pkt. 5 cts., ½oz. 15 cts., oz. 25 cts., ¼lb. 75 cts.

Large Late Drumhead. Very large, solid heads; standard variety for winter use. Pkt. 5 cts., ½oz. 10 cts., oz. 20 cts., ¼lb. 60 cts.

Large Late Flat Dutch. Without exception the best variety in cultivation for winter use; produces immense heads of the finest quality; splendid keeper. Pkt. 5 cts., ½oz. 10 cts., oz. 20 cts., ¼lb. 60 cts., lb. \$2.

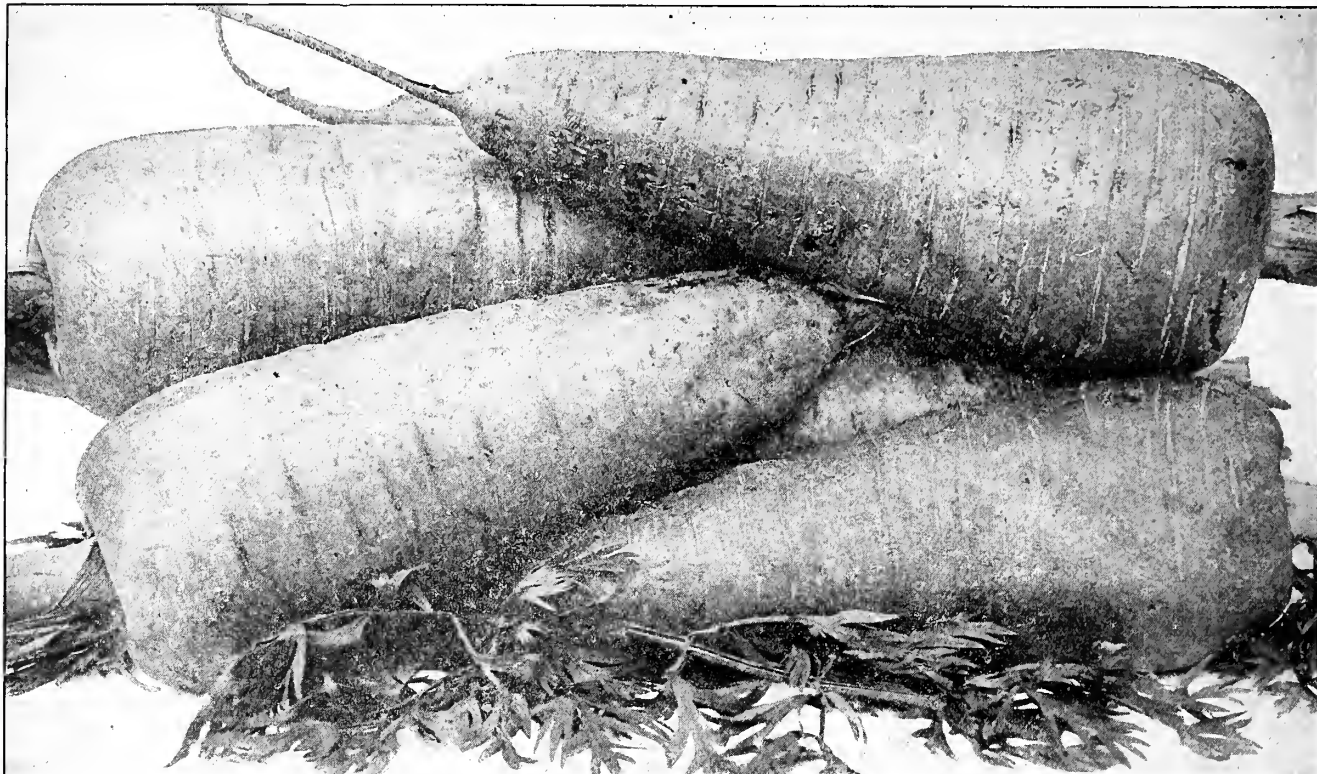
Red Cabbage

Mammoth Rock Red. This is by far the best, largest and surest-heading Red Cabbage ever introduced. The plant is large, with numerous spreading leaves. The head is large, round, very solid. Pkt. 5 cts., ½oz. 20 cts., oz. 30 cts., ¼lb. 85 cts.

Savoy Cabbage

American Drumhead Savoy. None of the late-growing varieties can begin to equal in flavor this sort for family use; heads large. Pkt. 5 cts., ½oz. 15 cts., oz. 25 cts., ¼lb. 75 cts., lb. \$2.25.

Early Dwarf Ulm Savoy. A very early and superior dwarf variety of fine quality. Pkt. 5 cts., ½oz. 10 cts., oz. 20 cts., ¼lb. 50 cts.



Selected Chantenay Carrots

CARROT

One ounce will sow
100 feet of drill

CULTURE.—To produce the finest crop, the land should be thoroughly manured the previous season; forked roots will result if the seed is sown on freshly manured soil. Sow the early sorts in March and April, in drills 1 inch deep and 14 inches apart; thin out to 6 inches. For main crop sow in May or beginning of June. Care should be taken, at all times, to see that soil is firm over the seeds, either by means of the feet, roller, or garden drill.

Selected Chantenay. A very splendid type of the half-long, stump-rooted Carrot. Averages 6 to 7 inches in length, broad at the neck, narrowing gradually to a blunt end. The flesh is rich orange-red, free from core, tender, fine flavored, and of excellent table quality. Pkt. 10 cts., oz. 25 cts., ¼lb. 75 cts., lb. \$2.50.

Selected Danvers. A handsome, cylindrical-shaped Carrot of good size and stump-rooted. It is of a rich, dark orange color, grows to large size, is smooth, and has little core. It is a first-class Carrot for all soils, yields a greater weight per acre than any other variety, and is more easily harvested than the old long varieties. This selected stock we are now offering has been specially grown for market-gardeners and is sure to give satisfaction. Pkt. 5 cts., oz. 15 cts., ¼lb. 50 cts., lb. \$1.50.

S. & W. Co.'s Improved Long Red Surrey.

A great improvement on the various types of Long Orange Carrot obtained by a careful selection, for successive years, of the best-formed and deepest-colored roots. It is larger, better-flavored, of a deeper orange color, and more certain to produce a crop than any type of long Carrot; flesh very sweet and tender; very productive, and never becomes hard or woody at the heart. The roots grow very regular and smooth; they are of good size, being from 6 to 8 inches in length and 2 inches in diameter at the top, tapering gradually from the shoulder to the tip of the roots. In color, shape or size, this is the ideal sort for a market-gardener's late crop. Pkt. 10 cts., oz. 25 cts., ¼lb. 75 cts., lb. \$2.50.

Sutton's New Red Intermediate. This excellent Carrot needs no recommendation. It is handsome in form, and as it is of fine color and texture, it is well suited for exhibition. Pkt. 15 cts., oz. 30 cts., ¼lb. \$1, lb. \$3.50.

Early Scarlet Horn. Favorite for early crop but not large. Sold largely in New York markets, bunched. It matures eight to ten

days earlier than the Long Orange, and is sometimes used for forcing. Per pkt. 5 cts., oz. 15 cts., ¼lb. 50 cts., lb. \$1.75.

Early French Forcing. The earliest variety and the one largely grown for forcing purposes. It makes a small, almost globe-shaped root of an orange-red color. Per pkt. 15c., oz. 30c., ¼lb. \$1, lb. \$3.50.

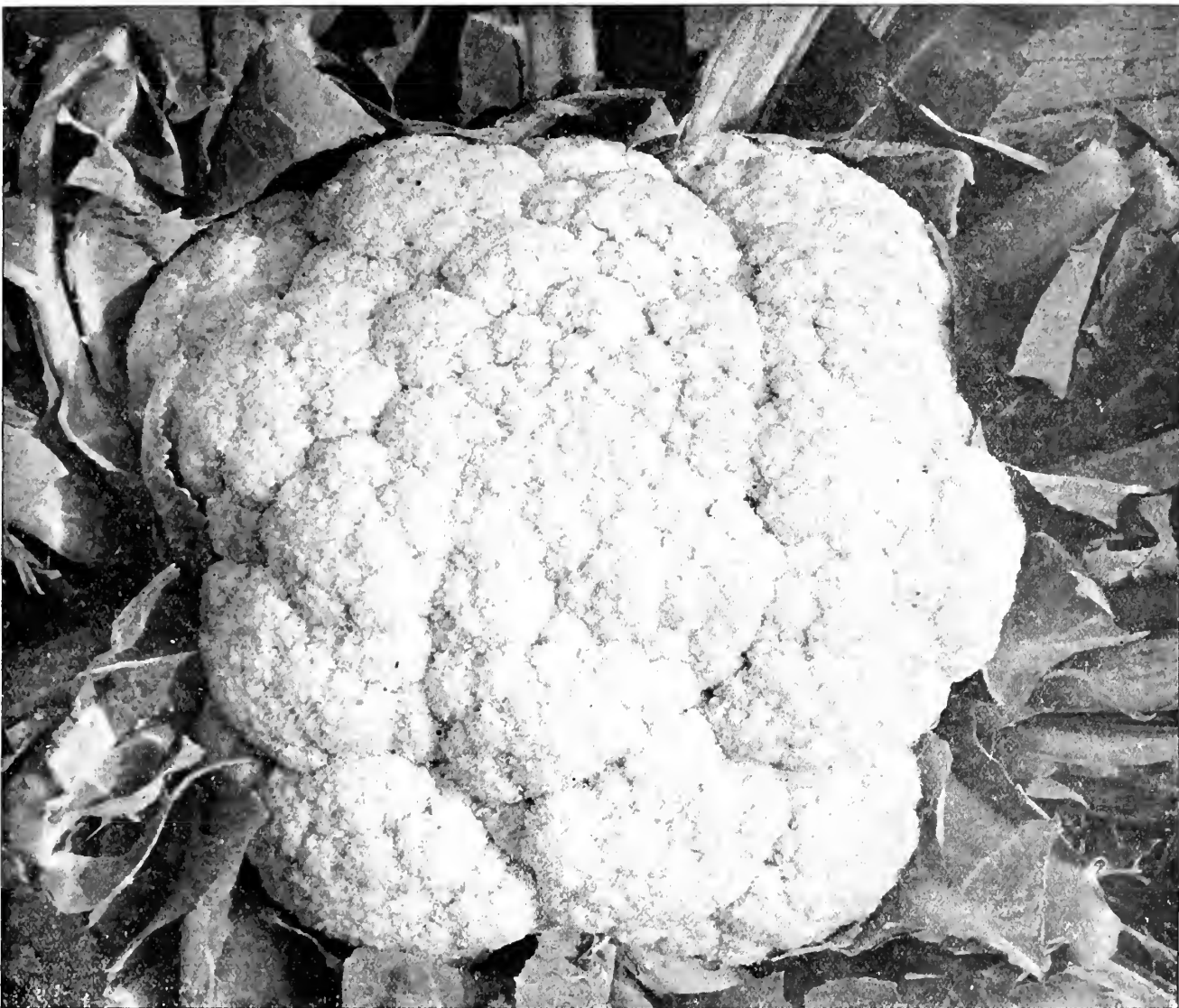
Early Half-Long Scarlet Nantes. The skin is smooth, flesh red, and without any core or heart. It is excellent for forcing, and for fine quality and perfect shape can hardly be surpassed. Per pkt. 10 cts., oz. 20 cts., ¼lb. 60 cts., lb. \$2.25.

James' Intermediate. This is certainly the best main crop Carrot. It is one of the most uniform in shape that we know, and where the soil is favorable, it will always grow clean and free from side roots. The core is small and very tender, and there is no indication of woody character at any stage of its growth. It is also entirely free from any coarse, rank flavor so common with many sorts. For private purposes it is ideal, and its yielding capacity is enormous, which, with its handsome color and fine appearance, makes it invaluable to truckers. Per pkt. 10 cts., oz. 25 cts., ¼lb. 75 cts., lb. \$2.50.

Long Orange Improved. One of the most desirable for either garden or field culture. Per pkt. 5c., oz. 15c., ¼lb. 50c., lb. \$1.50.

Oxheart, or Guerande. A French variety of recent introduction and a decided acquisition. It is intermediate between Half-long and Horn varieties, and perfectly distinct. The shape is nearly oval and the color and quality all that can be desired. Per pkt. 10 cts., oz. 25 cts., ¼lb. 75 cts., lb. \$2.50.

Selected Long Orange Improved. One of the most desirable for either garden or field culture; it grows to a large size, fair specimens averaging 12 inches in length and 3 inches in diameter at the top. All who have cattle should raise a surplus of this Carrot for feeding milch cows during winter. It increases the flow of milk and imparts to the butter a delicious flavor and a rich golden color. Per pkt. 10 cts., oz. 25 cts., ¼lb. 80 cts., lb. \$3.



S. & W. Co.'s Best of All Cauliflower

CAULIFLOWER

One ounce will produce
about 3,000 plants

CULTURE.—Sow the first week in May and prick out on a rich piece of ground, transplant in July. For wintering under glass sow in the second and last weeks in September; transplant thickly into a cold pit or frame; give plenty of air in mild weather, and cover up well in very severe. Again sow in February in a hotbed and transplant in April. For Cauliflower the ground should be well prepared by trenching, incorporating at the same time a good share of rotten manure. Select new ground, if possible, as Cauliflower rarely succeeds on ground which has been cropped year after year with other kinds of vegetables. Plant in rows 20 inches apart and 2 feet between the rows.

S. & W. Co.'s Best of All. Easiest grown, surest header. It is of very dwarf, erect habit, with short outer leaves. Can be planted less than 2 feet apart each way. It is a sure header, every plant forming a large, solid perfect head, of the finest table quality. Pkt 25 cts., $\frac{1}{8}$ oz. \$1, $\frac{1}{4}$ oz. \$1.75, oz. \$6.

Danish Dry Weather. This new variety of Cauliflower is specially adapted for sections subject to long dry seasons, as it will grow well and produce the finest heads in spite of the lack of moisture, which is required by other sorts. The heads grow to a large size, are very solid, pure white and of delicious flavor. It will prove valuable for growing in the southern states, where the climate is hot and long seasons of dry weather are experienced. Pkt. 15 cts., $\frac{1}{4}$ oz. \$1, $\frac{1}{2}$ oz. \$1.75, oz. \$3.

Early Dwarf Erfurt. This Cauliflower is an extra-early sort, of dwarf habit, and desirable for forcing or planting in the open ground. Pkt. 10 cts., $\frac{1}{4}$ oz. 75 cts., $\frac{1}{2}$ oz. \$1.25, oz. \$2.

Veitch's Autumn Giant. Pkt. 10 cts., oz. \$2.

Selected Early Snowball. This comes next to our Best of All. A sure-heading variety of dwarf habit, with short outer leaves, adapted for forcing under glass during winter and spring. Pkt. 15 cts., $\frac{1}{4}$ oz. \$1, $\frac{1}{2}$ oz. \$1.75, oz. \$3.

CELERY

One ounce will produce 3,000 plants

CULTURE.—Sow the seed in a coldframe or dry border as early as the ground can be worked, in drills 8 to 10 inches apart, covering the seed $\frac{1}{4}$ inch deep. When fairly out of the seed-leaf, they may be transplanted to another bed or thinned out to 5 or 6 inches apart, and let them grow until wanted for transplanting out into the beds or trenches. Early in July is the proper time to set out the plants in the trenches, or as soon after early July as possible; best results generally are obtained by setting out immediately after a rain. The trenches should be shallow, and wide enough to hold one or two rows. These rows should be 1 foot apart and the plants set about 8 inches apart in the row. As the plants grow, they should be earthed up to blanch them, care being taken not to let the earth get into the heart of the plant. For keeping over the winter, they can be either banked up with earth and covered over with litter to protect from frost where they have grown, placing boards on top to keep out the rain; or they may be taken up and blanched in a box in the cellar for winter use.

BEST 4 CELERIES GROWN

Paris Golden Self-Blanching.

(Grown in France by the originator.) This strain of Celery somewhat resembles the White Plume variety, but is much superior. It is entirely free from the green type and does not grow soft or pithy as most strains of Self-Blanching do. A very early variety and is acknowledged to be the best and most profitable Celery grown. Pkt. 20 cts., $\frac{1}{4}$ oz. 40 cts., $\frac{1}{2}$ oz. 65 cts., oz. \$1.25, $\frac{1}{4}$ lb. \$4.50, lb. \$16.

Improved White Plume Celery

It is the most popular, as it is not necessary to bank up as is the case with other Celeries. It is tender and of the very best flavor, also presents a very ornamental appearance on the table. Pkt. 10 cts., $\frac{1}{2}$ oz. 20 cts., oz. 35 cts., $\frac{1}{4}$ lb. \$1, lb. \$3.50.

Perfection Heartwell.

The finest and largest of the winter sorts, either for the family or market-garden. The heart is golden yellow, and its crisp tenderness and delicious flavor are unequalled. Pkt. 5c., oz. 20c., $\frac{1}{4}$ lb. 60c., lb. \$2.



Paris Golden Self-Blanching Celery

Winter Queen.

This is without doubt the most valuable variety of Celery for winter and spring use ever introduced, even excelling the celebrated Perfection Heartwell as a late winter keeper. It is also much stouter, thicker and heavier, with double the amount of heart of any known Celery. The plant is beautiful in appearance, of close habit and compact growth, and blanches to a beautiful cream-white. Ribs perfectly solid, crisp and of a delicious nutty flavor. It is worthy of first place as a late Celery, and will keep longer than any other variety. Pkt. 10 cts., $\frac{1}{2}$ oz. 20 cts., oz. 35 cts., $\frac{1}{4}$ lb. \$1, lb. \$3.50.

Several Good Standard Celeries

Columbia. An exceptionally fine early variety, which for size and shape is unsurpassed. A dwarf, stocky variety like Giant Pascal, but of a rich, yellow color, similar to Golden Self-blanching. It matures early and is of a delightfully crisp and nutty flavor. Pkt. 10 cts., oz. 50 cts., $\frac{1}{4}$ lb. \$1.75.

Covent Garden Red. A splendid dark rose variety; large and of nutty flavor. Makes a handsome appearance on the table, and is very desirable. Pkt. 10 cts., oz. 50 cts., $\frac{1}{4}$ lb. \$1.75.

Giant Pascal. This is a selection from the Golden Self-blanching Celery. The stalks are very large, thick, solid and crisp. It has a fine, nutty flavor, and is free from any trace of bitterness. It blanches with but slight earthing up. Pkt. 10 cts., oz. 35 cts., $\frac{1}{4}$ lb. \$1, lb. \$3.50.

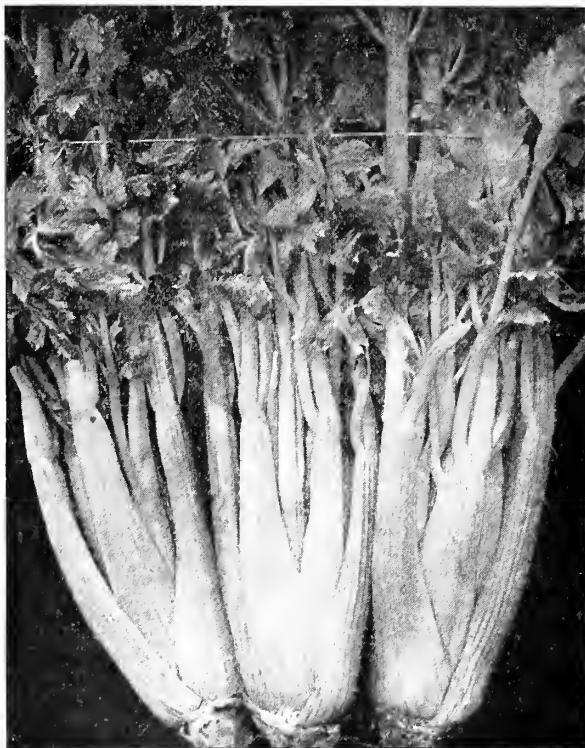
Improved Golden Heart. A selection from the old favorite Golden Heart Celery. Improved Golden Heart is one of the finest late varieties. The heart, when blanched, is a rich golden yellow. Pkt. 5 cts., oz. 25 cts., $\frac{1}{4}$ lb. 75 cts., lb. \$2.50.

CELERIAC (Turnip-Rooted Celery)

CULTURE.—A variety of celery with turnip-shaped roots, which are white-fleshed, tender and possess the flavor of celery stalks. Sow the seed in the open ground in April and treat the young plants the same way as celery.

Large Smooth Prague. Very large and fine; roots of superior quality. Pkt. 5 cts., oz. 20 cts., $\frac{1}{4}$ lb. 60 cts., lb. \$2.

Erfurt Giant. Very large and smooth root. Pkt. 5 cts., oz. 20 cts.



Winter Queen Celery



Sweet Corn, Metropolitan

Half-pints, Corn, postpaid
One quart will plant 200 hills

SUGAR CORN

Add 5 cents per pint and 10 cents
per quart, if wanted by mail

CULTURE.—Plant for succession of crops every three weeks, from April to July, in hills three feet apart each way, and six seeds in a hill; cover about half an inch; thin out to three plants.

EXTRA-EARLY VARIETIES

Golden Bantam. One of the sweetest Corns grown; the plant attains a height of only 3 to 4 feet, usually bearing two or more ears to the stalk. The ears are compactly filled with kernels which when ready for the table are cream yellow. Golden Bantam is one of the hardiest Corns grown, therefore can be planted earlier with safety than other varieties. This characteristic also adapts it to localities having cool summer weather, a continuous supply being maintained by successive plantings. $\frac{1}{2}$ pt. 10 cts., pt. 20 cts., qt. 35 cts., pk. \$2.25.

Peep-O'Day. One of the earliest of Sweet Corns. Grows about $3\frac{1}{2}$ feet high. Bears nearly always two ears on a stalk, which measure about 5 inches in length and are well filled. $\frac{1}{2}$ pt. 10 cts., pt. 20 cts., qt. 35 cts., pk. \$2.25.

Howling Mob Is ready for use only three to five days later than the extra-early Cory when both are planted at the same time, but the ears are much larger in size, while the grains are much whiter and sweeter. As an early variety of large size, we cannot too highly praise Howling Mob. Pkt. 10 cts., pt. 20 cts., qt. 30 cts., pk. \$2.25.

Metropolitan. It is safe to say that there never has been on the market any one variety of Corn that combined the essential features of earliness and good flavor in a satisfactory degree. In these important characteristics, Metropolitan certainly outclasses any other variety. $\frac{1}{2}$ pt. 15c., pt. 25c., qt. 40c., pk. \$2.

Extra-Early Evergreen. Ten days earlier than the standard variety. $\frac{1}{2}$ pt. 10 cts., pt. 15 cts., qt. 25 cts., pk. \$1.50.

Minnesota. One of the earliest; ears small, but of fine quality. $\frac{1}{2}$ pt. 10 cts., pt. 15 cts., qt. 25 cts., pk. \$1.25.

Cory Early (Red Cob). The Cory is undoubtedly the earliest of all, and the very best extra-early Sweet Corn. Those desiring a first-early variety can make no mistake in planting the Cory. $\frac{1}{2}$ pt. 10 cts., pt. 15 cts., qt. 25 cts., pk. \$1.25.

Perry's Hybrid. Very early; ears of large size; valuable for market purposes. $\frac{1}{2}$ pt. 10 cts., pt. 15 cts., qt. 25 cts., pk. \$1.25.

White Cob Cory. An extremely early variety, usually fit to use in from fifty to sixty days from seed sowing. A sport or selection from the famous "Red Cob Cory" which for years held popular favor as the best first early. "White Cob" Cory retains all of the qualities of its parent, with the added merit of having a white cob and white kernels. $\frac{1}{2}$ pt. 10 cts., pt. 20 cts., qt. 30 cts., pk. \$1.75.

MEDIUM-EARLY VARIETIES

Stowell's Evergreen. Now recognized everywhere as a standard variety, both for home use and market, and is the general favorite. The ears are of large size, grains deep, exceptionally tender and sugary, and has the advantage of remaining longer in the green state than any other. Our stock has been carefully grown and selected to avoid the tendency to a shorter grain and deterioration in the evergreen character of this best of all medium sorts. $\frac{1}{2}$ pt. 10 cts., pt. 20 cts., qt. 30c., pk. \$2.

Crosby's Early Sugar. Standard early sort; ears good size; fine quality. $\frac{1}{2}$ pt. 10 cts., pt. 15 cts., qt. 25 cts., pk. \$1.25.

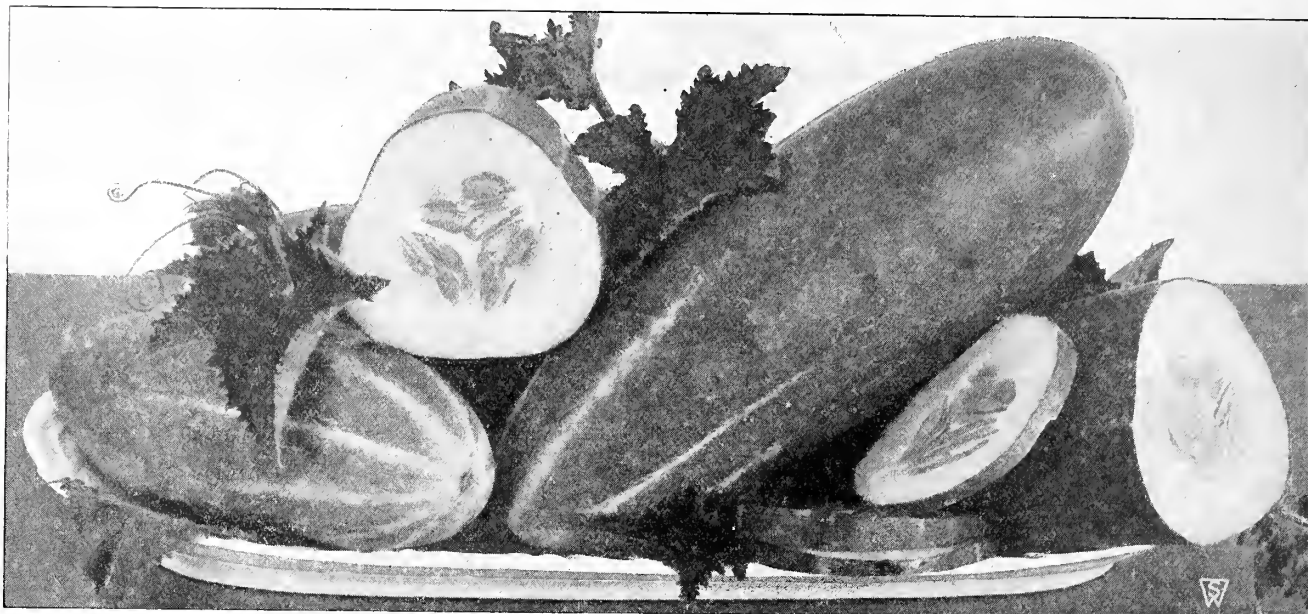
Early Mammoth. Very large and tender; similar to the Standard Mammoth variety, but much earlier. $\frac{1}{2}$ pt. 10 cts., pt. 15 cts., qt. 25 cts., pk. \$1.50.

LATE VARIETIES

Black Mexican. Very sweet and of fine flavor; grains black. $\frac{1}{2}$ pt. 10 cts., pt. 15 cts., qt. 25 cts., pk. \$1.50.

Late Mammoth. Immense ears and very sweet. $\frac{1}{2}$ pt. 10 cts., pt. 15 cts., qt. 25 cts., pk. \$1.50.

Country Gentleman. The Country Gentleman Corn retains its delicate tenderness and flavor even when a little old, as the ears are encased in a heavy husk, which tends to keep the ear "in the milk" for several days longer than other corns. The cob is unusually small and the pearly white kernels of great depth. $\frac{1}{2}$ pt. 10c., pt. 20c., qt. 40c., pk. \$2.



Klondyke Cucumber

CUCUMBER

One ounce will plant
about 50 hills

CULTURE.—The first planting should be made early in May, on partly spent hotbeds; inverted sods form an excellent medium for both planting on and carrying the young plants to their permanent location, or small paper pots can be used. Such plantings are usually ready for transplanting to the open ground in from three to four weeks, and are seldom troubled with the striped bug. Transplanting, when practicable, should be done in the evening, into hills 4 feet apart each way. Thin out to about four plants to a hill when established. The seed may be planted in hills late in May, thus giving a succession. For pickles, plant during the last two weeks of June. Plaster dust, or an infusion of hellebore powder in water, will destroy the striped bug.

Improved Early White Spine. The fruits are nearly cylindrical in form, slightly pointed at the ends, perfectly smooth and of deep, rich coloring marked with distinct white lines at the blossom end. Will retain its color longer after pickling than most varieties, and is splendid as a table Cucumber. Pkt. 5 cts., oz. 20 cts., $\frac{1}{4}$ lb. 50 cts.

New Klondyke. This is a hybrid sort of the White Spine type which holds its dark green color longer than most other sorts. Averages 6 to 7 inches in size; ends are quite square and it is about 2 inches thick. Its extreme earliness, combined with its prolific and hardy qualities, make it a very desirable variety for either market or private use. An excellent sort for slicing. When small, this variety is also an excellent pickling sort. Pkt. 10 cts., oz. 25 cts., $\frac{1}{4}$ lb. 75 cts., lb. \$2.50.

Fordhook Pickling. One of the best and most prolific varieties for producing pickles of medium size for both home or market use. Vines are very vigorous, yielding a large number of fruits; remaining in strong, healthy, growing condition longer than any other known variety. The skin is very tender and remains so when pickled. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.50.

New Davis Perfect. In color, a dark, glossy green; shape slim and symmetrical, with an average length of 10 to 12 inches. The quality is fine, as the seeds are very soft when the Cucumber is fit for table use. The flesh is very tender and brittle, and of exceptionally good flavor. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 60 cts., lb. \$2, 5 lbs. \$8.

Cool and Crisp. An excellent pickling or slicing Cucumber, of good size, tender and crisp; very early and exceedingly prolific. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 50 cts.

Early Green Prolific. This sort can be used for slicing, but is best for pickling on account of its uniform small size. Pkt. 5 cts., oz. 20 cts., $\frac{1}{4}$ lb. 75 cts.

Extra-Long Green. A well-known standard variety about 1 foot in length, of most excellent quality, and when young makes the best of pickles. When ripe it is the best of any for sweet pickles. Vines vigorous and very productive. Our strain of this valuable sort is unsurpassed by any, being carefully selected from the best fruits. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 50 cts.

Japanese Climbing. Well adapted for pickling, as well as for slicing for salads. The great advantage of this variety lies in the fact that it can be trained on a pole or fence. Pkt. 10 cts., oz. 25 cts., $\frac{1}{4}$ lb. 75 cts.

FORCING CUCUMBERS

We have decided to eliminate from our list all varieties of Forcing Cucumbers except Telegraph. By special arrangement, we have secured a selected strain of this variety, and have no hesitancy in saying we consider it equal to if not better than other varieties.

S. & W. Co.'s Improved Telegraph. A selection of the Telegraph Cucumber. A very dark green type which we have found from numerous tests to be the finest strain obtainable. Pkt. (10 seeds) 25 cts., 5 pkts. \$1.

CORN SALAD

One ounce will sow 150 feet of drill

CULTURE.—Sow early in the spring, in drills, 1 inch deep and 10 inches apart. For main crop sow in August and September and cover lightly during winter.

Large-seeded. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 30 cts., lb. 60 cts.

DANDELION

One ounce will sow about 100 feet of drill

CULTURE.—Sow in May, in drills 10 inches apart; thin out to 3 inches apart; cultivate during the season, and in the following spring the plants will be fit for use.

French Garden. Pkt. 5 cts., oz. 25 cts., $\frac{1}{4}$ lb. 75 cts.

GARLIC

One pound will plant 200 feet of drill

CULTURE.—Garlic is used for a variety of flavoring purposes. Plant the sets 6 inches apart in rows 1 foot apart. As soon as the leaves have turned, the crop is matured, and may be harvested like the onion.

Garlic Sets. Lb. 30 cts.

EGGPLANT

One ounce will produce
about 1,000 plants

CULTURE.—Sow in a hotbed in February and March; when the plants are 1 and 2 inches high, transplant, or thin out, to 2 or 3 inches apart. When the weather is warm and settled, they may be planted out in a warm situation, 2 feet apart each way.

Black Beauty. Very much on the style of New York, only darker and smoother. Pkt. 10 cts., ½ oz. 25 cts., oz. 45 cts., ¼ lb. \$1.50.

Black Pekin. Produces very handsome jet-black fruit of superior quality. Pkt. 5 cts., oz. 25 cts., ¼ lb. 75 cts., lb. \$2.50.

New York Improved Spineless. Extensively cultivated for both market and family use; it grows to a large size; very prolific and fine-flavored. Pkt. 5 cts., oz. 35 cts., ¼ lb. \$1.

ENDIVE

One ounce will sow
200 feet of drill

CULTURE.—One of the most attractive of all autumn and winter salads. It is commonly known in restaurants as Chicorée, and is especially refreshing when served with lettuce with plain French dressing. Sow seed from middle of June till last of August. When the plants are fully grown, tie all the outside leaves together, over the heart, to blanch the inner leaves, which will take about a week. Do not tie up when the leaves are wet, as they will then decay.

Green Curled. Is the hardiest variety and has deep green leaves, that are finely crinkled and curled. Pkt. 5 cts., oz. 15 cts., ¼ lb. 50 cts., lb. \$1.50.

White Curled. Very tender when cut young; blanches readily. Very similar to Green Curled, but the leaves are naturally of a light golden tint, and they do not have to be tied up to blanch them for table use. Flavor very good. Pkt. 10 cts., oz. 25 cts., ¼ lb. 75 cts.

French Moss Curled. A heavier and more dense plant than Green Curled; very finely curled. Pkt. 10 cts., oz. 25 cts., ¼ lb. 75 cts.

Broad-leaved Batavian (Escarolle). Broad, thick leaves with rounded ends, much larger in size and not deeply fringed like the preceding sorts. This is used in its natural state as a salad, and also like spinach. Pkt. 5 cts., oz. 15 cts., ¼ lb. 50 cts., lb. \$1.50.

KALE

One ounce will produce
about 300 plants

CULTURE.—Sow in May in shallow drills, 10 or 12 inches apart; when large enough, transplant singly in rows 24 in. apart each way.

Dwarf Green Curled Scotch. Very dwarf and spreading; one of the best. Pkt. 5 cts., oz. 10 cts., ¼ lb. 25 cts., lb. 75 cts.

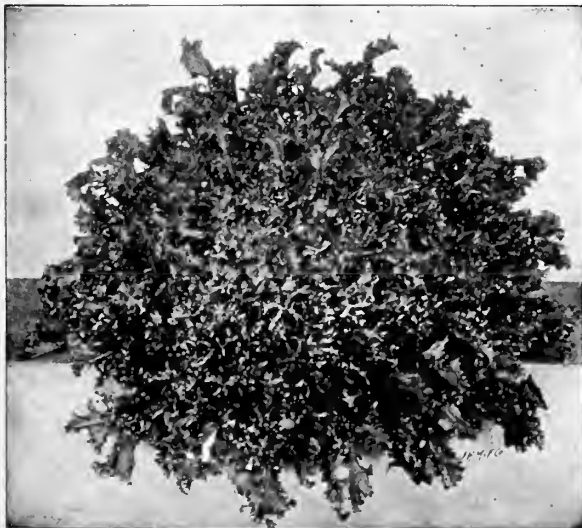
Siberian Kale, or Sprouts. Should be sown in September and treated like spinach; it is fit to cut early in spring. Pkt. 5 cts., oz. 10 cts., ¼ lb. 25 cts., lb. 75 cts.

Dwarf Brown Kale. A beautiful curled variety, with spreading foliage; very hardy and of fine flavor. Pkt. 5c., oz. 10c., ¼ lb. 25c., lb. 75 cts.

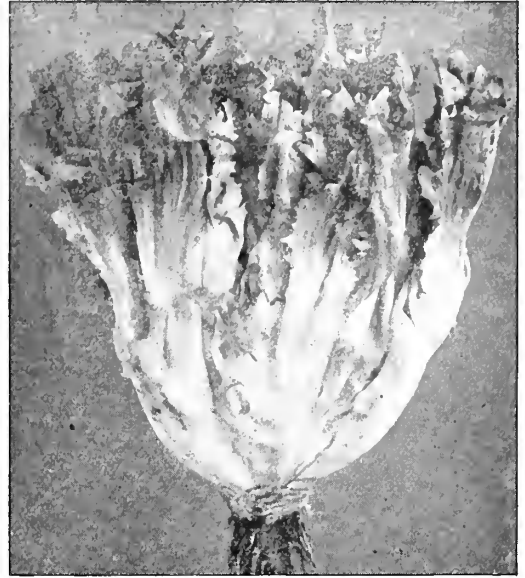
MARTYNIA

The seed-pods are used for pickling, when gathered young and tender. Sow in open ground in May, in hills 3 feet apart each way, or in hotbed and afterwards transplant.

Martynia proboscidea. Pkt. 10 cts., oz. 30 cts., ¼ lb. 85 cts.



Green Curled Endive



Broad-leaved Batavian Endive

KOHLRABI

One ounce will sow about
200 feet of drill

CULTURE.—This is a very delicious vegetable, and is increasing in popularity rapidly; combines the good qualities of the turnip and cabbage, but excels both in nutritive and productive qualities. Cooked the same as turnips, they are very tender and palatable. Sow in spring in rows 18 inches apart, and thin away the plants to 8 inches.

Early White Vienna. The earliest and best for either market or family use. Pkt. 5 cts., oz. 25 cts., ¼ lb. 75 cts., lb. \$2.50.

Early Purple Vienna. Similar to the preceding, except in color, which is of a bluish purple. Pkt. 5c., oz. 30c., ¼ lb. 85c., lb. \$3.

Earliest Selected (for frames). A variety with few and small leaves; can be planted very closely; very useful for general culture and indispensable for forcing. Pkt. 10 cts., oz. 50 cts., ¼ lb. \$1.25.

LEEK

One ounce will sow about
100 feet of drill

CULTURE.—Sow the seed very early in a seedbed in a sheltered place, if possible. When plants are about 6 inches long transplant them to trenches 6 inches deep, with very rich soil at the bottom. Fill up the trenches as the plants grow, and later draw soil up to them. As a result you will have fine, large Leeks blanched half a foot long, which may be kept all winter if dug up with the roots on and stored in moist sand in the cellar.

S. & W. Co's. Exhibition. This is by far one of the best, long, blanched varieties we have ever offered. Seed furnished several prominent exhibitors in vegetable classes this past fall pronounced quite the best they have grown. Pkt. 25 cts., 5 pkts. \$1.

Large Carentan. (Winter.) A very hardy variety of extra-large size; the leaves are fan-shaped, of a dark green color, the edible stem is 6 to 8 inches long and 3 inches in diameter. Pkt. 10 cts., oz. 30 cts., ¼ lb. 75 cts., lb. \$2.50.

Large American Flag. The largest and most desirable, either for market or family use. Pkt. 10 cts., oz. 30 cts., ¼ lb. 75 cts., lb. \$2.

Large Rouen. Pkt. 5 cts., oz. 20 cts., ¼ lb. 50 cts., lb. \$1.50.

MUSTARD

One ounce will sow
75 feet of drill

CULTURE.—As an ingredient, the green Mustard imparts a delightfully pungent flavor to the various forms of prepared salads. For early crops the seed may be sown in a hotbed, in March, and for general crop at frequent intervals through the spring, in drills from 8 to 12 inches apart.

White London. The best variety for salads; the seed is used also medicinally and as a seasoning for pickles. Oz. 5 cts., ¼ lb. 10 cts., lb. 25 cts.

Black, or Brown. An esteemed sort for culinary use. Oz. 5 cts., ¼ lb. 10 cts., lb. 25 cts.

Giant Southern Curled. Very large leaves. Pkt. 5 cts., oz. 10 cts., ¼ lb. 20 cts., lb. 50 cts.

New Chinese. Leaves twice the size of the ordinary white Mustard; stems more succulent, of deeper green; flavor pleasantly sweet and pungent. Pkt. 5 cts., oz. 15 cts., ¼ lb. 20 cts., lb. 60 cts.

LETTUCE

One ounce will sow
150 feet of drill

CULTURE.—Sow early in spring in a hotbed; transplant in April for summer use. Again, sow from April at intervals in the open ground, and for winter and spring use in August and September. Protect by means of a coldframe during winter. When sown for cutting, the seed may be put in rather thick, in rows or broadcast; but to have finer heads, it should be sown thinly in rows, and transplanted a foot apart into rich soil.



Big Boston Lettuce

preceding will mature about ten days to two weeks later. Pkt. 10 cts., oz. 25 cts., $\frac{1}{4}$ lb. 75 cts., lb. \$2.50.

Big Boston. A splendid Head Lettuce, perhaps the most generally and favorably known of the ten mentioned here. Forced in frames to great extent in the spring and is also planted in August for late crop. Does not do well for midsummer use, but as a fall or early spring Lettuce is one of the best. Large heads; center crisp and of fine flavor. Pkt. 10 cts., oz. 25 cts., $\frac{1}{4}$ lb. 75 cts., lb. \$2.

All-Seasons. May be described as a black-seeded Deacon. A good heat-resister. If sown early in May will produce fine, buttery Lettuce from the latter part of June to the latter part of July. Pkt. 5 cts., oz. 20 cts., $\frac{1}{4}$ lb. 60 cts., lb. \$1.75.

Iceberg. A splendid, crisp head sort for the summer. Few Lettuces resist the heat better. Has strong center ribs, which bend toward the heart of the plant, keeping it thoroughly blanched. Repeated sowing from early May, of this sort and New York, or Wonderful, at intervals of three weeks should supply the table well up to September 1. Pkt. 5 cts., oz. 20 cts., $\frac{1}{4}$ lb. 60 cts., lb. \$1.75.

New York, or Wonderful. This variety grows considerably larger than Iceberg and matures about ten days later. The outer foliage is a distinct, dark green as compared with the yellowish green of Iceberg. Pkt. 5 cts., oz. 20 cts., $\frac{1}{4}$ lb. 60 cts., lb. \$1.50.

Crisp as Ice. Perhaps the least known of the three remarkable crisp-head varieties. The hardest of all the Lettuces, sometimes remaining in the garden until Thanksgiving. Heads somewhat globe-shaped and of an unattractive dark green and bronze-color; the heart, however, is splendid. Pkt. 10 cts., oz. 25 cts., $\frac{1}{4}$ lb. 75 cts., lb. \$2.50.

Grand Rapids Forcing. There is no better forcing variety among the curled-leaved sorts than the Grand Rapids, and it is quite as good for outdoor culture as many others. Large, beautiful leaves; crisp and tender. Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 40 cts., lb. \$1.25.

Black-seeded Simpson (Loose Head.) A popular curly-leaved sort, similar to Curled Simpson, except that it is larger in size. Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 30 cts., lb. \$1.

Black-seeded Tennisball. Forms a close, hard head with few outer leaves. Pkt. 5 cts., oz. 20 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.50.

Boston Market. (Butterhead.) Solid, crisp and compact; one of the best for forcing. Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 30 cts., lb. \$1.

Immensity. (Butterhead.) A very large, nearly smooth-leaved variety that succeeds well in a cool location. Pkt. 10 cts., oz. 25 cts., $\frac{1}{4}$ lb. 90 cts., lb. \$3.

Mammoth Black-seeded Butter. A large Head Lettuce of splendid quality, much lighter in color than Big Boston. Pkt. 5 cts., oz. 20 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.50.

Mignonette. Heads small, compact; leaves slightly curled, edges tinted brown. Pkt. 5 cts., oz. 20 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.50.

TEN FINE LETTUCES

A suggestion in one of our prominent garden periodicals has given Ten Fine Lettuces for the amateur gardener to grow, whose garden-space is small, and where crisp Lettuce is desired from April to October.

Early Curled Simpson. A splendid curly-leaved sort. Seed sown in the coldframe about the middle of March and transplanted about the middle of April will supply the table from May until the middle of June. Pkt. 5c., oz. 15c., $\frac{1}{4}$ lb. 30c., lb. \$1.

Golden Queen. A small variety of compact habit, forming yellowish green heads. Seed may be sown about the middle of April outdoors, giving Lettuce in about six weeks, just a few days before May King and about a day or so after Wayahead. Pkt. 10 cts., oz. 25 cts., $\frac{1}{4}$ lb. 75 cts., lb. \$2.50.

Wayahead. Large and fine. Very similar to May King described below. If seed is sown about the same time as Golden Queen it will likely mature a few days sooner, but usually make a looser head. Pkt. 10 cts., oz. 25 cts., $\frac{1}{4}$ lb. 75 cts., lb. \$2.50.

May King. Unquestionably one of the best all-round, early, outdoor Lettuces. Does remarkably well in cold or wet weather, forming solid heads of bright green, the edges of the center leaves tinged reddish brown, the heart is clear yellow and of ideal flavor. If sown the same time as Wayahead, Golden Queen will be ready about four to five days later. This variety is sown in August for fall use. Pkt. 5 cts., oz. 20 cts., $\frac{1}{4}$ lb. 60 cts., lb. \$1.75.

California Cream Butter. The largest and latest of the early varieties of this type named in this list. If sown the same time outdoors as the three

Salamander Perfected. (Butterhead.) An excellent summer variety that is grown largely by the market-gardener on account of its heat-resisting qualities. Grows to large size, with tightly folded leaves covering the center, which blanches a light golden. Pkt. 5 cts., oz. 20 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.50.

COS or ROMAINE LETTUCE

A very distinct type of Lettuce, the plants being of upright growth.

S. & W. Co's. Giant White. Although this fine Cos Lettuce attains a large size, the immense heart is crisp, tender and excellent; habit quite self-folding. A splendid early sort. Pkt. 25 cts., oz. 75 cts.

Paris White Cos, or Romaine. A splendid sort for summer use, leaves quite erect. Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 40 cts., lb. \$1.25.

Trianon Self-closing Cos. Long, narrow leaves; very tender and crisp. Pkt. 5 cts., oz. 20 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.50.



Muskmelon Admiral Togo

MUSKMELON

One ounce will sow
about 80 hills

CULTURE.—Sow the seed in April under hand glasses, and in the open air in May in hills six feet apart each way. Plant in each hill from 8 to 10 seeds, covering half an inch deep. When the plants have produced their rough leaves, thin out to three plants. The hills should be prepared by trenching in rotten manure and sand. As soon as the plants make their appearance above ground, dust them with soot, charcoal dust or wood ashes, to prevent the ravages of the bug.

Admiral Togo. This is an orange-fleshed Netted Gem, or Rocky Ford. We have developed in the Admiral Togo a small muskmelon with the very thick, orange flesh and splendid quality of the Defender, and possessing the characteristic netting, shape, size and shipping quality of Netted Gem or Rocky Ford. Combining all the good qualities of these two fine varieties we believe the Admiral Togo is an ideal table and basket melon. Pkt. 10 cts., oz. 25 cts., $\frac{1}{4}$ lb. 75 cts., lb. \$2.50.

Selected Emerald Gem. The skin is a rich deep green smooth, flesh salmon-color and of delicious flavor. A very early and prolific variety and one that is very extensively grown for family use. Pkt. 10 cts., oz. 25 cts., $\frac{1}{4}$ lb. 75 cts., lb. \$2.50.

S. & W. Co.'s Selected Stock, Rocky Ford.

This famous variety is the finest early green-fleshed Melon in cultivation. The fruits are remarkably uniform in size, weighing from one and a quarter to one and a half pounds each. They are quite thick meated, with very thin rinds; skin light green, regularly ribbed and heavily netted, turning to a golden yellow as the Melon ripens. Flesh light green in color, firm but melting, of uniformly fine flavor. Pkt. 10 cts., oz. 30 cts., $\frac{1}{4}$ lb. \$1.

Delmonico. Oval; deeply netted; large size; orange flesh. Pkt. 10 cts., oz. 30 cts., $\frac{1}{4}$ lb. \$1.

Extra-Early Hackensack. Large, round and of fine quality; a standard variety. Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 50 cts.

Jenny Lind. Small, but very early; green flesh. Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 40 cts.

Long Island Beauty. On style of Hackensack, but earlier and finer in quality, and the most beautiful Muskmelon. Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.25.

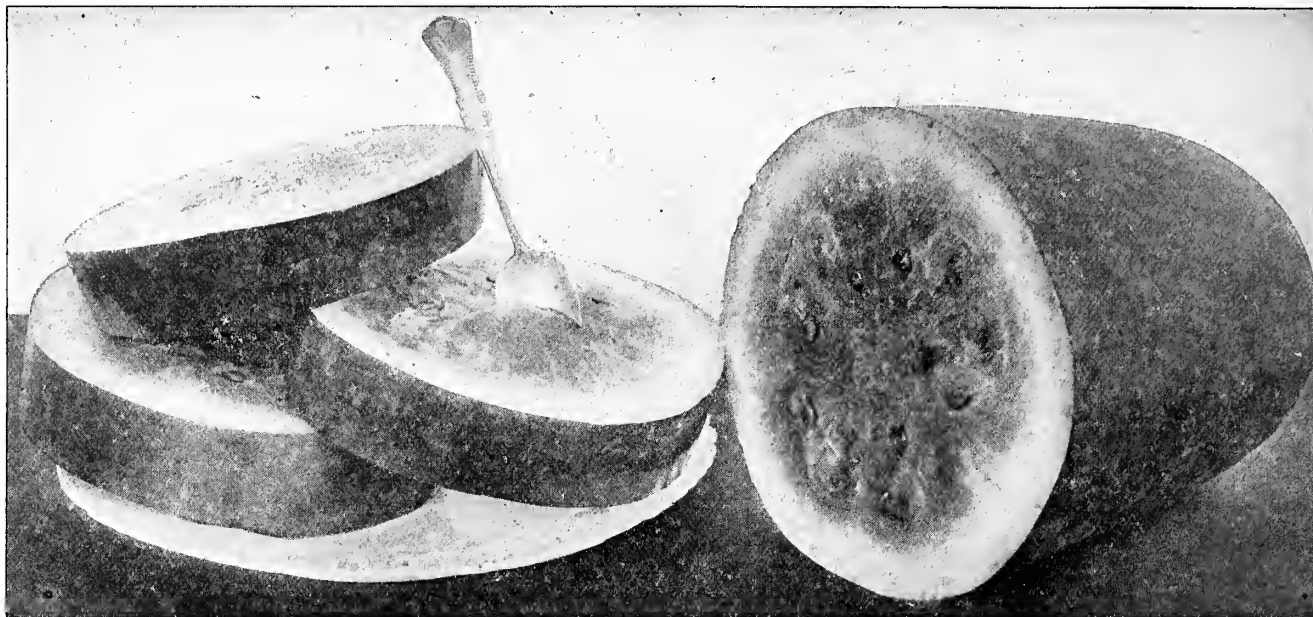
Hoodoo. A new orange-fleshed variety, ideal as a shipping Melon and of the very finest quality. Vine vigorous, remarkably blight-resisting and very productive. Fruits uniformly of medium size. Netting exceptionally fine and dense, extending practically over the entire surface. Rind thin yet very firm, so that the Melons arrive in perfect condition in distant markets. Flesh very thick, firm, highly colored, of fine texture and delicious flavor. Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 40 cts., lb. \$1.50.

Paul Rose. This new red-fleshed Melon is exceedingly sweet and highly flavored, and in it are combined all the good qualities of the Netted Gem and Osage, the varieties from which it originated. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 60 cts.

Tip Top Melon. The most productive melon known; good for early or late, having a sweet, juicy fine flavor; solid flesh (but not hard) and eatable to the outside coating. The fruit is of large size, nearly round, evenly ribbed and moderately netted. Pkt. 10 cts., oz. 25 cts., $\frac{1}{4}$ lb. 75 cts.

English Frame Varieties (Imported Seed)

	Pkt.
Sutton's Invincible Scarlet Flesh	\$0 25
Blenheim Orange	25
Eastnor Castle Green Flesh	25
Sutton's Perfection Pale Green Flesh	25
British Queen	25



Kleckley Sweets Watermelon

WATERMELON

One ounce will plant
about 50 hills

CULTURE.—Treat the same as muskmelon, except that they should be planted 8 to 10 feet apart, according to variety.

Cole's Early. A most delicious and productive variety for the family garden, succeeding in northern states, where melons were never matured before. The flesh is of a beautiful bright red color, crisp and extremely delicate in texture—that granulated, cool, sparkling appearance that is so captivating to the eye; in flavor it is lusciously sweet and refreshing, no pithiness or stringiness. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 30 cts., lb. \$1.

Kleckley Sweets. The sweetest of all the Watermelons. Fine-flavored and grained, tender meat. Fruits are large size; rind very thin and green, very brittle; flesh scarlet and firm, and a variety everyone should grow. Pkt. 10 cts., oz. 25 cts., $\frac{1}{4}$ lb. 65 cts., lb. \$2.50.

Kolb's Gem. Largely grown in the South for shipment to northern markets; it has no equal as a shipping melon; the fruit is nearly round; rind dark green, somewhat marbled with lighter shades. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 20 cts., lb. 50 cts.

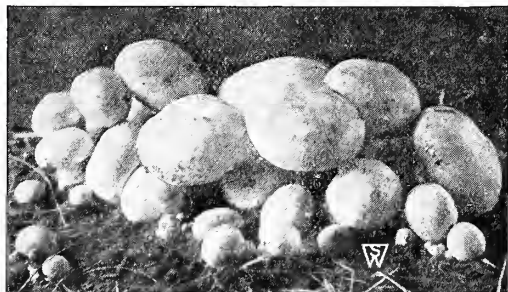
Citron. Round and handsome; used for preserves. Our strain of this variety is very fine; fruits uniformly large. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 20 cts., lb. 60 cts.

Tom Watson. A large, long melon similar in shape, color and splendid quality to Monte Cristo, but averaging larger in size and with a tougher rind. Vines vigorous and productive. Flesh rich red, sweet and tender. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 60 cts., lb. \$2.

MUSHROOM SPAWN

Ten bricks will spawn
10 feet square

CULTURE.—"I have the fresh horse droppings saved until a sufficient quantity accumulates to fill the beds, occasionally turning the manure and watering it slightly if it appears to be not moist enough. Then I leave the mass for three days, after which I again turn it, adding more water if necessary. After turning, I firm the manure, and in three days again repeat the operation. The most particular part is to get the manure moist enough and yet not too moist. After the second turning the manure is generally ready for the bed. My beds are only 10 inches in depth. I press in the manure very firmly, and cover slightly with salt hay or straw, which tends to retain the moisture in the bed. When the temperature of the bed drops to 85°, I insert the "Pure Culture" Spawn in pieces about the size of an egg, 1 foot apart one way and 9 inches the other. I insert the Spawn just deep enough to cover with a little manure. I keep the temperature of the house between 55° and 60°, and occasionally dampen the walls, etc., as required; also occasionally "dew" over the hay covering the bed with warm water. If the Spawn runs properly, a white, frothy substance will be observed in about ten days or two weeks. I then remove the hay and cover with one inch thickness of sifted soil, preferably good pasture loam, firming it down. Mushrooms will generally appear in from six to eight weeks. I always have a little finely sifted soil on hand, and fill all the holes up after gathering the Mushrooms—that is, the holes made by removing the stalks. With good care the bed will last three months. Should it appear dry, water thoroughly with water heated to 90°, in which a pinch of nitrate of soda dissolved will be found very beneficial. In conclusion, I may say I think most of the failures in mushroom-growing arise from the manure being too dry."—Joseph Robinson.



Bed of S. & W. Co's Pure Culture Mushroom Spawn

American Pure Culture Spawn

10 lbs. will spawn 10 square feet

This type produces larger Mushrooms than the English, coming into bearing somewhat earlier, and continuing to crop for a long time. This spawn is produced by selecting spores from individual specimen Mushrooms, and is propagated and transferred to the bricks of manure, which, when planted, produce Mushrooms all of one type.

Per Brick (about 1½ lb.), 30 cts.
Per 25 Bricks, \$5.

Per 10 Bricks, \$2.40.
Per 100 Bricks, \$15.

English Spawn

We have decided to discontinue offering this Spawn, as from our own experience and reports of others we find the American Spawn best.

ONIONS

One ounce for 100 feet of drill
5 to 6 pounds per acre

CULTURE.—Sow in rich, sandy soil, in drills 1 foot apart, as early as possible in the spring, cover with fine soil and firm well, either with roller or back of spade. When plants are strong enough, thin out to 3 or 4 inches. The finest Onions are produced by sowing the seed in a hotbed early in February and transplanting seedlings to the open ground 6 inches apart.

S. & W. Co.'s Selected Ailsa Craig. This Onion continues to be one of the largest, when stock is good and if sown early. It is a very handsome, oval-shaped variety, with pale straw-colored skin. Two of these Onions have been exhibited in England that weighed eight pounds, and in some parts of Massachusetts it attains a weight of three pounds four ounces. For exhibition it is unexcelled, and a more shapely bulb than the Prizetaker. To attain its largest size it should be sown in the greenhouse in January and transplanted to the open in April. For a large Onion it is a splendid keeper, and for those who like an Onion raw we recommend it highly on account of its mild flavor. The Onions in the illustration below were grown from our seed, and weighed slightly over three pounds each. Pkt. 15 cts., $\frac{1}{2}$ oz. 40 cts., oz. 75 cts., $\frac{1}{4}$ lb. \$2.50, lb. \$10.

Large Red Wethersfield. This is the standard red variety, and a favorite Onion in the East, where immense crops are grown for shipment. Bulb large, somewhat flattened, oval shape; skin deep purple-red; flesh purplish white, moderately fine grained and stronger flavored than any of the other kinds. Very productive, the best keeper, and one of the most popular for general cultivation. It is more inclined to form large necks if planted on unsuitable soil than the Danvers, but is the best variety on poor or dry soil. Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.75.

STANDARD ONIONS

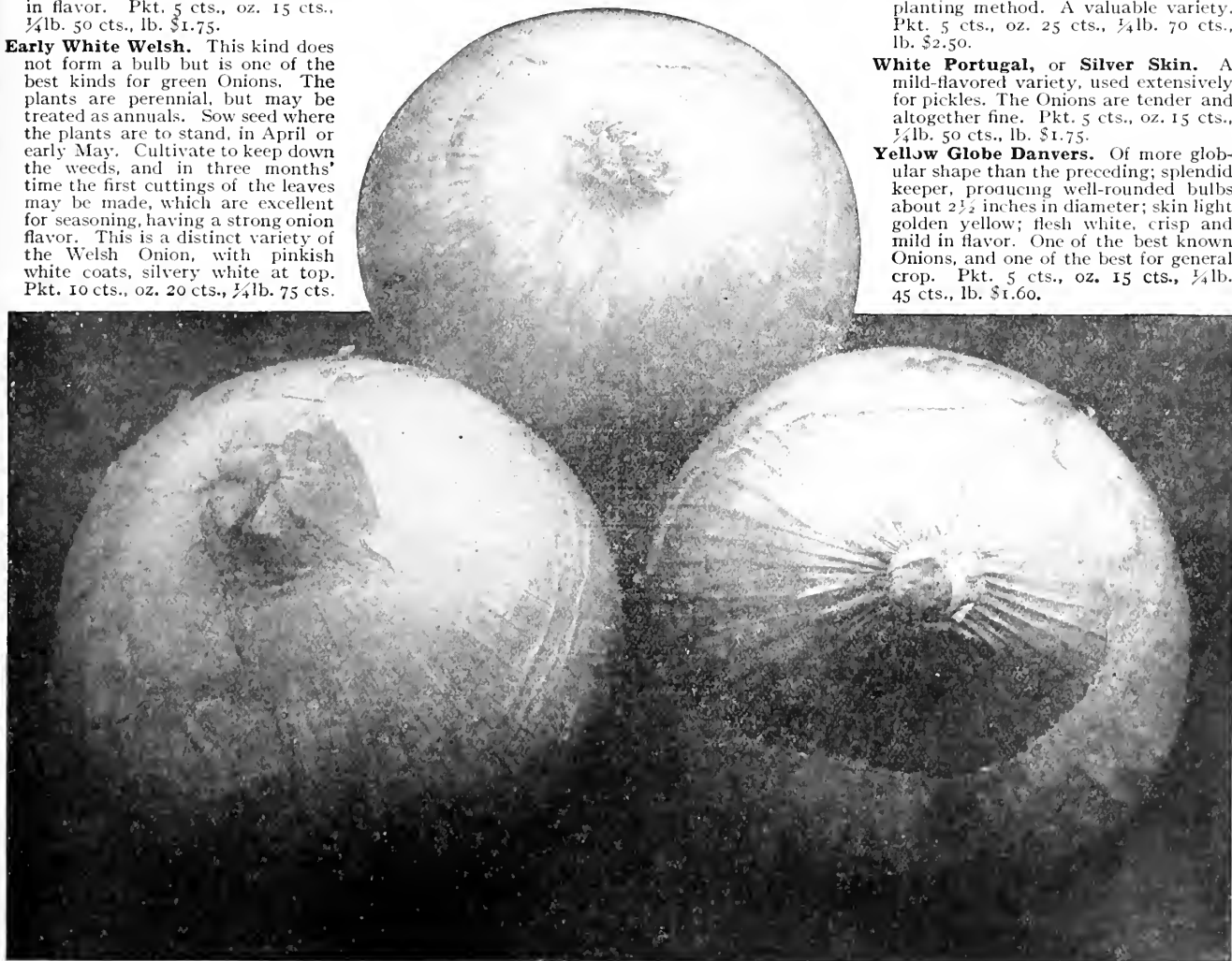
Prizetaker. Grows uniform in shape; is of immense size, measuring from 12 to 16 inches in circumference, while under special cultivation specimen bulbs have been raised to weigh from four to six pounds each; its pure white flesh is fine-grained, mild and delicate in flavor. Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.75.

Early White Welsh. This kind does not form a bulb but is one of the best kinds for green Onions. The plants are perennial, but may be treated as annuals. Sow seed where the plants are to stand, in April or early May. Cultivate to keep down the weeds, and in three months' time the first cuttings of the leaves may be made, which are excellent for seasoning, having a strong onion flavor. This is a distinct variety of the Welsh Onion, with pinkish white coats, silvery white at top. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 75 cts.

White Pickling. When matured, the tops die down, leaving beautiful and perfect little bulbs. The color is pure white, flavor mild and delicate, perfectly adapted for pickling and table use; and makes a pretty bunch Onion, especially if grown by the transplanting method. A valuable variety. Pkt. 5 cts., oz. 25 cts., $\frac{1}{4}$ lb. 70 cts., lb. \$2.50.

White Portugal, or Silver Skin. A mild-flavored variety, used extensively for pickles. The Onions are tender and altogether fine. Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.75.

Yellow Globe Danvers. Of more globular shape than the preceding; splendid keeper, producing well-rounded bulbs about $2\frac{1}{2}$ inches in diameter; skin light golden yellow; flesh white, crisp and mild in flavor. One of the best known Onions, and one of the best for general crop. Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 45 cts., lb. \$1.60.



Ailsa Craig Onions

ONIONS

One ounce for 100 feet of drill,
five to six pounds for one acre

S. & W. Co.'s Perfect Globe-Shaped

S. & W. Co.'s Southport White Globe. Yields abundantly, producing handsome and uniformly globe-shaped bulbs. The flesh is firm, fine-grained and of mild flavor. To produce the beautifully white Onions, so much sought in every market, one must, first of all, have good seed. Second, grow them well on rich land. Third, exercise great care in harvesting and curing the crop. In Southport, they "cord" up the Onions in long rows, the bulbs on the inside, and cover with boards so that the bulbs in the open air are well protected from rain or dew, which would be sure to discolor them. We have, by years of careful selection and breeding, developed a strain which has no equal in uniformity and beauty of shape and color. Pkt. 10 cts., oz. 25 cts., ¼ lb. 80 cts., lb. \$3, 5 lbs. \$14.

S. & W. Co.'s Southport Yellow Globe. This is probably the finest all-round sort grown. The enormous quantities annually shipped to market prove its popularity, and it is more largely grown than any other variety. We take unusual precautions to maintain the highest degree of perfection in our stock, and can confidently claim superiority for it. The bulbs are large and uniformly spherical, with very small necks; the largest diameter is below the center of the bulb. The color is a rich orange-yellow; enormous yielders and splendid keepers. No Onion-grower can afford to plant inferior seed when such as this can be procured. Per pkt. 10 cts., oz. 20 cts., ¼ lb. 60 cts., lb. \$1.75, 5 lbs. \$8.

S. & W. Co.'s Southport Red Globe. Very similar to Wethersfield in color, having a deep red skin, but differing in shape, being almost a perfect globe. Size large, flesh fine-grained, mild and tender. Pkt. 10 cts., oz. 20 cts., ¼ lb. 60 cts., lb. \$1.75, 5 lbs. \$8.



S. & W. Co.'s Perfect Globe-Shaped Onions

Collection

One packet each, three varieties Globe Onion,
**RED,
WHITE,
YELLOW,**
for 25c.; one oz. ea., three varieties, 60c.

ONION SETS

The Reason for Planting Onion Sets

Our Globe Onion Sets will produce Onions much earlier than by sowing the seeds, which frequently permit the planter to sow another crop on the land the same year. For green or bunch Onions, sets will produce a crop in half the time it takes to raise them from seed. Plant Onion Sets and Tops near the surface in drills 12 inches apart and 4 inches in the rows. They require the highest culture to obtain the best results.

	Ot.	½pk.	Pk.		Ot.	½pk.	Pk.
White Onion Sets	\$0 30	\$1 10	\$2 00	Yellow Potato Onion Sets	\$0 25	\$0 90	\$1 75
Yellow Onion Sets	30	1 10	2 00	White Potato Onion Sets	25	90	1 75
Red Onion Sets	30	1 10	2 00	Shallots	30	1 10	2 00
White Multiplier Onion Sets	25	90	1 75	Egyptian Top Sets	25	90	1 75



Globe Onion Sets

OKRA, or GUMBO

One ounce will sow about
100 feet of drill

CULTURE.—Sow in the second or third week in May, if the weather is settled and warm, in drills one inch deep and four feet apart; thin out to 12 inches.

Lady Finger. A new variety from the South, very productive, extra-long, slender pods of fine round form. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 20 cts., lb. 60 cts.

Kleckley's Favorite. One of the best varieties. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 20 cts., lb. 60 cts.

Long Green. Long ribbed pods, very productive. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 20 cts., lb. 50 cts.

White Velvet. Very distinct in appearance; pods are perfectly round, smooth and of a white velvety appearance and of superior flavor. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 20 cts., lb. 50 cts.

PARSLEY

One ounce will sow about
150 feet of drill

CULTURE.—Parsley requires a rich, mellow and deep soil. Soak the seed for a few hours in tepid water, and sow early in the spring in drills one foot apart and half an inch deep. Thin out the young plants to four inches. Hamburg Parsley should be treated the same as carrots.

Extra Double Curled. Standard market sort. Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.50.

Champion Moss Curled. Very beautiful. Pkt. 10 cts., oz. 25 cts., $\frac{1}{4}$ lb. 60 cts., lb. \$2.

Fern-Leaved. Finest garnishing variety. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 25 cts., lb. 75 cts.

Plain. The ordinary form. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 25 cts., lb. 80 cts.

Curled Beauty. Pkt. 10 cts., oz. 25 cts., $\frac{1}{4}$ lb. 60 cts., lb. \$2.

Hamburg, or Rooted. Edible roots. Pkt. 10 cts., oz. 30 cts., $\frac{1}{4}$ lb. \$1, lb. \$3.

PARSNIP

One ounce will sow about 200 feet of
drill. 5 to 6 lbs. for an acre

CULTURE.—Sow as early in spring as the ground can be worked, in drills 18 inches apart, covering with fine soil to the depth of half an inch. The soil should be rich and deeply dug. The quality of the roots is much improved after a severe frost; in fact, they may be allowed to remain in the ground throughout the winter, as they are perfectly hardy.

S. & W. Co.'s Improved Hollow Crown. A great improvement over the present Hollow Crown variety; smooth, clean and well shaped. Excellent for table or exhibition. Pkt. 5 cts., oz. 20 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.50.

S. & W. Co.'s Maltese. We are confident in stating that this highly selected strain can not be surpassed, either for size or flavor; the roots, which grow to a very large size, are as tender and sweet-flavored as varieties that do not grow to half the size; a very fine variety for exhibition. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 60 cts., lb. \$2.

PEPPER

One ounce will produce
about 200 plants

CULTURE.—Sow in hotbed in March or in the open ground in April; transplant in rows 20 inches apart each way. The seed may be sown in the open ground after all danger of frost is passed.

S. & W. Co.'s Selected Ruby King. Fruit bright ruby-red. The flavor is so mild and pleasant that it can be sliced and eaten like cucumbers or tomatoes. Pkt. 10 cts., oz. 35 cts., $\frac{1}{4}$ lb. \$1, lb. \$4.

Chinese Giant. Double the size of Ruby King. This is the standard large Sweet Pepper. It is quite early to ripen and very productive for so large a variety. Productiveness may be increased by pinching the first or "king" blossoms which appear. They grow 4 or 5 inches broad at the top, and are of equal length. Quite uniform in size. The flesh is mild and unusually thick and makes an excellent salad sliced and served like tomatoes. Color green, changing to a glossy scarlet when ripe. Pkt. 10 cts., $\frac{1}{4}$ oz. 15 cts., $\frac{1}{2}$ oz. 25 cts., oz. 40 cts., $\frac{1}{4}$ lb. \$1.15, lb. \$4.

Long Red Cayenne. Fruit about four inches long, bright red color; very productive. Pkt. 5 cts., oz. 25 cts., $\frac{1}{4}$ lb. 75 cts., lb. \$2.50.

Cherry Red. Small round fruit, rich scarlet color, and extremely piquant. Pkt. 5 cts., oz. 30 cts., $\frac{1}{4}$ lb. 85c., lb. \$3.

Large Bell or Bull Nose. A large early variety of pleasant flavor. Pkt. 5 cts., oz. 20 cts., $\frac{1}{4}$ lb. 65 cts., lb. \$2.25.

Magnum Dulce. Superior to Chinese Giant or any other variety for size and quality. Pkt. 10 cts., $\frac{1}{2}$ oz. 20 cts., oz. 35 cts., $\frac{1}{4}$ lb. \$1.25.

Dwarf Early Red Squash. Thick meat, small, flat squash-shape. Pkt. 10 cts., oz. 30 cts., $\frac{1}{4}$ lb. \$1, $\frac{1}{2}$ lb. \$3.50.

New Neapolitan. Is fully two weeks earlier than Bull Nose, or Ruby King; of good size, and mild flavor. Pkt. 10 cts., oz. 25 cts., $\frac{1}{4}$ lb. 90 cts.

Golden Dawn. Bright golden yellow; very productive. Pkt. 5 cts., oz. 25 cts., $\frac{1}{4}$ lb. 75 cts., lb. \$2.

Sweet Mountain. Similar to the Bull Nose, but larger, sweeter and of milder flavor. Pkt. 5 cts., oz. 25 cts., $\frac{1}{4}$ lb. 75 cts., lb. \$2.50.

Red Cluster. Bears a profusion of red clusters of very thin, pungent Peppers in an upright position. Pkt. 10 cts., oz. 30 cts., $\frac{1}{4}$ lb. 85 cts.

RHUBARB

One ounce will produce
about 1,000 plants

CULTURE.—Sow early in spring, in drills one inch deep and a foot apart thin out; transplant the following season 4 feet apart each way.

Linnaeus. Early, large and tender. Pkt. 5c., oz. 20c., $\frac{1}{4}$ lb. 50c., lb. \$1.50.

Victoria. Very large, somewhat later than Linnaeus. Pkt. 5 cts., oz. 20 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.50.

Roots. 10c. ea., \$1 per doz.; extra-strong clumps, 25c. ea., \$2.50 per doz.



S. & W. Co.'s Maltese Parsnip



S. & W. Co.'s Selected Ruby King Pepper

OUR PACKETS CONTAIN
A FULL HALF-PINT

PEAS NORTHERN GROWN

Where pints and quarts are ordered
BY MAIL, add 5 and 10 cts. each,
unless order amounts to \$1 or more

One quart will plant 100 feet of drill. Price on half pints include postage

CULTURE.—For early crops sow as early in spring as practicable, and again every two or three weeks for a succession throughout the season up to the 1st of August. Plant in single or double rows, 4 feet apart and 2 inches deep. In dry weather soak the Peas over night before planting. In the vicinity of New York the extra-early Peas, if planted from the 15th to the last of August, will produce a medium crop for late picking when they will be found most acceptable.

Varieties marked * are wrinkled Marrows, and should be sown more thickly than the round Peas, and not until the ground has become warm, as they are more liable to rot. All wrinkled sorts are much superior in flavor to the round Peas.

EARLY PEAS

Alaska. A round, slightly pitted, blue-seeded sort, grown largely by canners. An extremely early variety. May be planted as early as First of All, but for the home garden it is not considered quite so good. Height 24 inches. $\frac{1}{2}$ pt. 10 cts., pt. 20 cts., qt. 30 cts., pk. \$2.

Ameer. Sometimes called Large Alaska. In habit it is dwarf and stocky; color dark green. Bears about the same time as Thomas Laxton, but, while more prolific and of fine quality, it cannot be compared as regards flavor. Height $2\frac{1}{2}$ feet. $\frac{1}{2}$ pt. 10 cts., pt. 20 cts., qt. 35 cts., pk. \$2.25.

***American Wonder.** A very early wrinkled Pea that will bear about the same time as Little Marvel, but is not so large or prolific. Height 1 ft. $\frac{1}{2}$ pt. 10 cts., pt. 20 cts., qt. 30 cts., pk. \$2.

***Early Morn.** This grand introduction maintains its position as one of the best early marrowfat Peas ever raised. Although so early, the seed should not be sown until the soil is in a fit shape to receive it in April, as it is a rapid grower. The pods are very large and well filled, and are often ready to pick several days after Gradus. Height about $2\frac{1}{2}$ feet. $\frac{1}{2}$ pt. 15 cts., pt. 25 cts., qt. 45 cts., pk. \$3.

First of All, or Pedigree Extra Early.

A smooth-seeded variety that cannot be too highly recommended. In a planting where ten varieties are wanted to produce a continuous succession of Peas from June 1, this variety heads the list, and will give you Peas four or five days earlier. A splendid cropper; Peas very tender, of good flavor, and carried in long, well-filled pods. Height $2\frac{1}{2}$ ft. $\frac{1}{2}$ pt. 10 cts., pt. 20 cts., qt. 30 cts., pk. \$2.

***Gradus, or Prosperity.** Undoubtedly one of the most valuable sorts introduced up to the present time. The vine has heavy stems, with large, light green leaves and grows about 3 feet high. It produces uniformly large pods, measuring from 4 to $4\frac{1}{2}$ inches in length, nearly round and well filled with very large, handsome Peas of the finest flavor and very early, ready for picking after First of All is through, and leaves little to be desired. Height 3 feet. $\frac{1}{2}$ pt. 15 cts., pt. 25 cts., qt. 40 cts., pk. \$2.75.

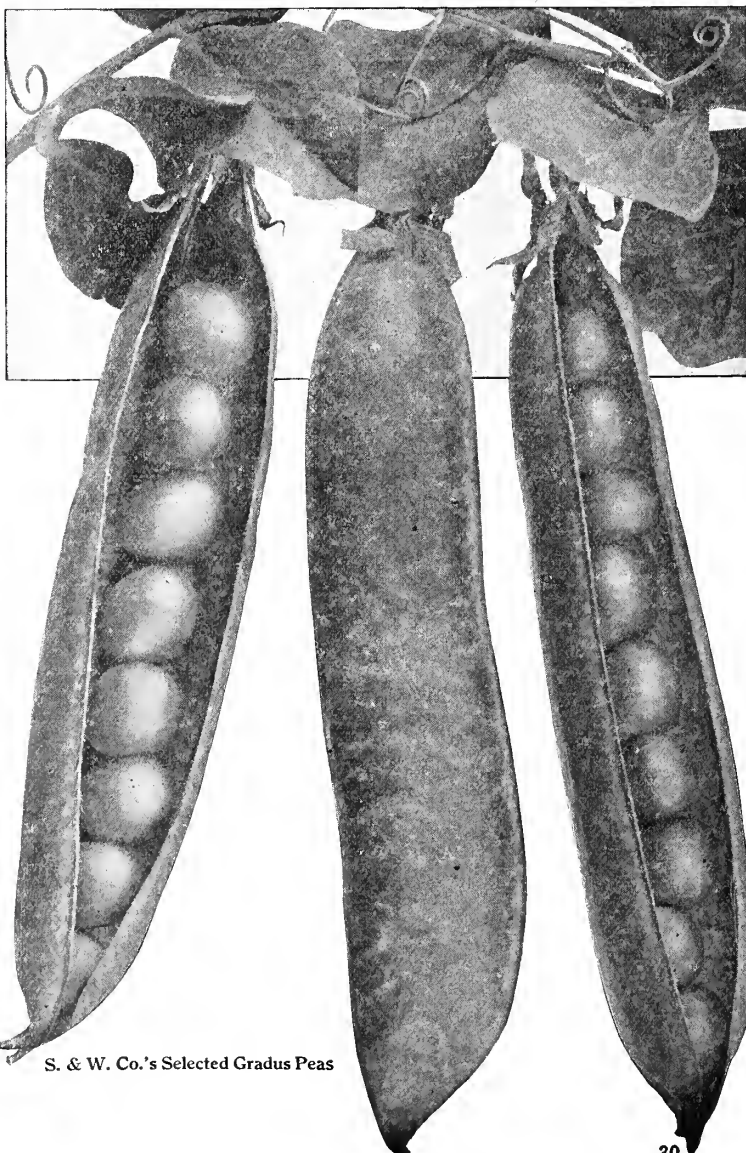
***Little Marvel.** A first-early Pea of the finest quality, better than American Wonder or Nott's Excelsior. The vines of dwarf, even growth, average 15 inches high, and are heavily set with fine pods, usually in pairs. The pods average $2\frac{1}{2}$ inches in length, are square at the bottom, and are well filled with quite large, deep green Peas. The Peas are ready for picking fully as early as American Wonder, but the pods are larger and the vines bear a much heavier crop. All who desire a fine crop of an early, choice variety of Peas will be delighted with Little Marvel. Begins to bear just as Gradus is at its best. Height 15 inches. $\frac{1}{2}$ pt. 15 cts., pt. 25 cts., qt. 40 cts., pk. \$2.75.

***McLean's Little Gem.** An early variety that comes to bearing about the same time as Little Marvel, and while very productive is not so large. Peas are tender and of fine quality. Height 18 inches. $\frac{1}{2}$ pt. 10 cts., pt. 20 cts., qt. 30 cts., pk. \$2.

***Nott's Excelsior.** A splendid early sort; large cropper and still preferred by many planters on account of its prolific yielding qualities, but is now really superseded by Little Marvel. Height 14 inches. $\frac{1}{2}$ pt. 10 cts., pt. 20 cts., qt. 35 cts., pk. \$2.25.

Saxonia. In this new extra-early, round Pea, the objections to round Peas, on account of their limited yield are removed, as it yields as abundantly as any of the later sorts. It sets an entirely new standard for round Peas. The pods are double the size of First of All, and are borne mostly in pairs. The vines grow about 2 feet high, and are healthy and vigorous, bearing very large crops of fine Peas. Used by many in preference to Alaska. Height 24 inches. $\frac{1}{2}$ pt. 10 cts., pt. 20 cts., qt. 35 cts., pk. \$2.25.

***Sutton's Excelsior.** A variety that calls for highest commendation; equal to Gradus in quality and considerably more productive. Ready for picking just after Gradus and Little Marvel. Height 18 inches. $\frac{1}{2}$ pt. 15 cts., pt. 25 cts., qt. 40 cts., pk. \$2.75.



S. & W. Co.'s Selected Gradus Peas

OUR PACKETS CONTAIN
A FULL HALF-PINT

PEAS

NORTHERN GROWN

Where pints and quarts are ordered
BY MAIL, add 5 and 10 cts. each,
unless order amounts to \$1 or more

EARLY PEAS, continued

***Thomas Laxton.** A remarkably fine, early, wrinkled Pea, and we think destined to supersede Gradus. In many characteristics it resembles that excellent sort, but the pods differ in shape, and are certainly more numerous. The Peas are of extra-fine quality, tender and of a flavor not excelled by any other. It grows about 3 feet in height, but does not need brushing. Ready for picking at the same time as Sutton's Excelsior. It is a remarkably profitable market Pea, as it is always in demand and brings the best prices. Height 3 feet. $\frac{1}{2}$ pt. 15 cts., pt. 25 cts., qt. 40 cts., pk. \$2.75.

MEDIUM AND MAIN-CROP PEAS

***Alderman.** A distinctly different Pea in habit from those described in the Early list. On generous soils it grows to a height of 5 to 6 feet, and should be supported with brush or trellises. The pods contain seven large, elongated, dark green Peas of the highest quality, and follow in the wake of Thomas Laxton. The plants bear very profusely and the Peas bring the highest price in market. Height 5 feet. $\frac{1}{2}$ pt. 10 cts., pt. 20 cts., qt. 35 cts., pk. \$2.50.

*Boston Unrivalled, or Telephone.

This variety is much like Alderman, with vines fully as tall, pods slightly smaller, and bears right up to the season of the very late sorts. The yield of pods is not so great nor so well filled as Alderman. The Peas are every bit as tender, but darker green in color and sweeter. Height 5 feet. $\frac{1}{2}$ pt. 10 cts., pt. 20 cts., qt. 35 cts., pk. \$2.50.

***Buttercup.** Just as Alderman and Boston Unrivalled are at their best Buttercup is ready for picking. Is a handsome, light green Pea, with curved pods frequently borne in pairs, which makes picking very easy. On an average the vines bear six or seven pods containing seven or eight fine, large Peas. Height 2 feet. $\frac{1}{2}$ pt. 15 cts., pt. 25 cts., qt. 40 cts., pk. \$2.75.

***British Wonder.** A distinct sort, possessing very thrifty, bluish green vines which are marvels in respect to their productiveness and the Peas are even sweeter than Gradus. Pods not unlike those of Little Marvel. While the pods of British Wonder are decidedly smaller than Alderman or Boston Unrivalled, and frequently not well filled. Where space is a factor, it is a valuable variety because its vines do not exceed 2 feet in height and the quality of the Peas is excellent, with a particularly fine flavor. It is one of the most profitable sorts on the market, as it always brings top prices. Height 24 inches. $\frac{1}{2}$ pt. 10 cts., pt. 20 cts., qt. 35 cts., pk. \$2.50.

***Champion of England.** Vines grow 4 to 5 feet high. Peas of excellent quality, and preferred by many; the pods are well filled and the Peas are of delicious flavor. Height 54 inches. $\frac{1}{2}$ pt. 10 cts., pt. 20 cts., qt. 30 cts., pk. \$2.

***Daisy (Carter's).** Very dwarf-growing, extra-early variety; pods large, averaging 5 inches in length, containing 7 to 9 fine, large green Peas of delicious flavor. Height 1 $\frac{1}{2}$ feet. $\frac{1}{2}$ pt. 10 cts., pt. 20 cts., qt. 35 cts., pk. \$2.25.

***Potlach.** Really an improved Stratagem and, without a doubt, the best dwarf, extremely late Pea. Healthy bluish green vines, bearing loads of deep green pods; frequently an average of eight pods in pairs containing an average of seven fine, large Peas of superlative flavor. A continuous bearer from July 1 to 15 in most seasons. Height 2 feet. $\frac{1}{2}$ pt. 10 cts., pt. 20 cts., qt. 35 cts., pk. \$2.25.



Alderman Peas

MEDIUM AND MAIN-CROP PEAS, continued

Quite Content. One of the largest-podded Peas in existence and in season similar to Alderman. This variety is preferred by many growers to Alderman on account of its large pods. Height 4 feet. $\frac{1}{2}$ pt. 5 cts., pt. 25 cts., qt. 45 cts., pk. \$3.

***Senator.** A grand, second-early, productive of large, luscious, very wrinkled Peas. The handsome, large, round pods are curved and always well filled. Vines grow 3 to 4 feet and carry an enormous crop of delicious Peas, which always command top prices in market on account of their appearance and quality. Height 3 feet. $\frac{1}{2}$ pt. 10 cts., pt. 20 cts., qt. 35 cts., pk. \$2.50.

Telephone. See Boston Unrivalled.

EDIBLE-PODDED SUGAR PEAS

Luscious Melting Sugar. Grows to the height of 5 feet; bears a profusion of large, broad pods, which are so brittle that they snap without any stung. They should be used in much the same way as a wax bean. The pods when cooked are very sweet and tender. $\frac{1}{2}$ pt. 10 cts., pt. 20 cts., qt. 35 cts., pk. \$2.50.

Very Dwarf White Sugar. Unusually dwarf, very similar in habit to the American Wonder. The pods are beautifully crimped, are of unusual size for such a small-growing sort, and are of exquisite melting quality. $\frac{1}{2}$ pt. 10 cts., pt. 20 cts., qt. 35 cts., pk. \$2.50.

POTATOES FOR SEED



Extra-Early Bovee Potatoes

OUR POTATOES ARE GROWN BY A SEED POTATO SPECIALIST IN MAINE, AND WHILE PERHAPS SOMEWHAT HIGHER IN PRICE THAN OTHERS, ARE WORTH THE DIFFERENCE. BARRELS CONTAIN $2\frac{3}{4}$ BUSHELS

EARLY POTATOES

Early Bovee. (Selected.) Somewhat earlier than Early Rose. A medium-sized Potato, very productive. The dwarf growth of vines permits easy cultivation, insuring a good yield. $\frac{1}{2}$ pk. 75 cts., pk. \$1.25, $\frac{1}{2}$ bus. \$2, bus. \$3.50, bbl. \$8.

Early Rose. (Selected.) A variety which has been grown extensively in some sections. A Potato of good size and fine quality. $\frac{1}{2}$ pk. 75 cts., pk. \$1.25, $\frac{1}{2}$ bus. \$2, bus. \$3.50, bbl. \$8.

Irish Cobbler. One of the first varieties of Potatoes to be ready for market, and therefore will command a good price. The skin is creamy white, sometimes netted, which is an indication of good quality; eyes are strong, well developed, and but slightly indented. The flesh is white and of fine flavor. $\frac{1}{2}$ pk. 75 cts., pk. \$1.25, $\frac{1}{2}$ bus. \$2, bus. \$3.50, bbl. \$8.

BEST MAIN-CROP POTATOES

Carman No. 3. Is of perfect form even in dry seasons, almost every Potato being of uniform size and shape, averaging nearly a pound each in weight. The skin and flesh are extremely white. $\frac{1}{2}$ pk. 75 cts., pk. \$1.25, $\frac{1}{2}$ bus. \$2, bus. \$3.50, bbl. \$8.

PUMPKINS

One ounce will
plant 50 hills

CULTURE.—Plant in April or May, among corn, or in the garden, in hills 8 to 10 feet apart, and otherwise treat in the same manner as melons.

Large Tours, or Mammoth. Grows to an immense size, often weighing over 100 pounds. Pkt. 10 cts., oz. 30 cts., $\frac{1}{4}$ lb. 50 cts.

Connecticut Field. Grown for stock purposes. Oz. 10 cts., $\frac{1}{4}$ lb. 20 cts., lb. 60 cts.

Winter Luxury. This we recommend as one of the best pie Pumpkins; an excellent keeper and enormously productive. It is very finely netted and in color it is a golden russet. Pkt. 10 cts., oz. 25 cts., $\frac{1}{4}$ lb. 60 cts.

Large Cheese. A most popular variety in the South. Fruit flattened, the diameter being two or three times more than the length; skin mottled light green and yellow, changing to rich cream-color as it matures; flesh tender and of excellent quality. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 25 cts., lb. \$1.

Jumbo. This is the variety to be grown where "the biggest Pumpkin" is wanted. We have seen specimens weighing 250 pounds. The color of skin is a deep yellow, the flesh being of a lighter shade. Notwithstanding its enormous size, it is delicious in quality and generally desirable. Pkt. 10 cts., oz. 25 cts., $\frac{1}{4}$ lb. 60 cts.

Calhoun. A good-sized, almost round Pumpkin, with creamy brown skin; flesh deep salmon-yellow, wonderfully thick, fine-grained, and of the finest quality for rich-colored pies. Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 40 cts.

CULTURE.—Any good, well-drained, fibrous loam will produce Potatoes under right climatic conditions. For early Potatoes, which mature in eight to ten weeks from planting, the soil must be particularly rich. A rich clover sod, manured and broken the year before and planted to corn, beans, peas, oats, etc., is in best shape for giving a good yield of nice, clean Potatoes. Stable manure had better be applied to the land the year before. S. & W. Co.'s Potato Manure, at the rate of up to 1,000 pounds to the acre, if applied broadcast, or 400 to 600 pounds, if applied mostly in the rows, may be used directly for the Potato crop. Open furrows 3 feet apart and 3 to 4 inches deep. Apply the fertilizer and run the furrower or small plow again in the furrow to mix the fertilizer with the soil and leave a mellow seed-bed. Then plant good-sized pieces, each containing not less than two or three eyes, 15 inches apart in the furrows for early Potatoes, and 18 inches apart for late ones. Cover with coverer, small plow or other suitable tool. Cultivate often. Spray with Pyrox as a protection from flea beetle, potato beetle and blight. 11 bushels, or 4 barrels, will plant an acre.

Green Mountain. (Selected Stock.) A late, heavy cropper of excellent quality; skin smooth and white; shape roundish flat; eyes few and shallow; a good keeper. $\frac{1}{2}$ pk. 75 cts., pk. \$1.25, $\frac{1}{2}$ bus. \$2, bus. \$3.50, bbl. \$8.

Gold Coin. A splendid main-crop variety of remarkable productiveness and finest table quality; slightly oblong form; light golden skin; flesh pure white, fine-grained; cooks very dry. $\frac{1}{2}$ pk. 85 cts., pk. \$1.50, $\frac{1}{2}$ bus. \$2.25, bus. \$4, bbl. \$9.

Norcross. Has been grown for the past few years and has given excellent satisfaction. The Potato is large, flat, oval, perfect in shape, finest in quality, largest in yield. It is an excellent eating Potato, is very hardy, and has shown exceptional blight-resisting qualities. $\frac{1}{2}$ pk. 75 cts., pk. \$1.25, $\frac{1}{2}$ bus. \$2, bus. \$3.50, bbl. \$8.

Snow (White). Sometimes called "Poor Man's Friend." On account of the large yields that have been reported of this Potato it is rightly entitled to be called the poor man's friend. It is of handsome shape and most desirable for the best trade. It is a vigorous grower, ripens uniformly, a little earlier than Green Mountain, is a good keeper and fast becoming one of the most popular medium-late varieties. $\frac{1}{2}$ pk. 85 cts., pk. \$1.50, $\frac{1}{2}$ bus. \$2.25, bus. \$4, bbl. \$9.



Large Cheese Pumpkin

RADISH

One ounce will sow
about 100 feet of drill

CULTURE.—Sow, for early crops, in March, in hotbed, and in April and May in a warm border, and continue throughout the season, in fortnightly sowings, in drills an inch deep and a foot apart.

"Cooper's Sparkler." A quite distinct variety, now offered for the first time. Fulfills every requirement in each respect, the color being a rich carmine-scarlet, with a very pronounced tip of the purest white. The roots, even when fully developed, are solid, crisp and sweet, and remain fit for use as long as the coarser kinds. It is equally well adapted for forcing in frames or growing in the open ground, for, while the leaves are small, as shown in the accompanying photograph, they are sufficiently large for bunching. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.50.

Sakurajima. A Radish from Japan, which grows to enormous dimensions. The circumference of some are 13 inches, the length 21 inches. The skin is white and the fruit is always crisp and tender. The taste is more delicate than our American varieties, and we believe that this variety will become popular. Pkt. 15 cts., oz. 35 cts.

EARLY TURNIP VARIETIES

Scarlet. Very early. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 25 cts., lb. 60 cts.

Scarlet White-tipped. Fine for early forcing in frames, or outdoors. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 25 cts., lb. 75 cts.

Early White Turnip. A small, round sort, inclined to flat. Its beautiful, pure white color makes it very useful for mixing with other sorts. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 25 cts., lb. 70 cts.

Yellow Summer. Splendid variety; stands heat and drought well. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 20 cts.

Early Scarlet Globe. Of distinct shape, brilliant color, short-leaved, crisp and white; an excellent variety for forcing. Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.50.

Large White Summer. Large size and fine form; excellent for summer use. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 25 cts.

Large Gray Summer. Large size, round. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 25 cts.

Triumph Scarlet-striped, Forcing. A very desirable addition to our forcing sorts. The roots are about the size and shape of Scarlet Turnip White-tipped, but are creamy white, beautifully marked with spots and dashes of carmine. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 40 cts.

OLIVE-SHAPED VARIETIES

Olive-shaped Scarlet. Flesh bright and crisp. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 25 cts., lb. 75 cts.

Olive-shaped White. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 25 cts., lb. 75 cts.

French Breakfast. A favorite sort; mild and crisp. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 25 cts., lb. 75c.

Red Rocket. Shape is long oval, color bright red, good flavor. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 40 cts.

White Rocket. Similar to Red Rocket, but is pure waxy white throughout. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 40 cts.

White-tip Rocket. Brilliant scarlet with white tip; flavor delicious. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 40 cts.

LONG VARIETIES

Scarlet Short Top. Very long and crisp. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 20c., lb. 60c.
Scarlet Chartier White-tipped. The color at the top is crimson, running into pink, about the middle, and from thence downward is a pure white. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 25 cts., lb. 65 cts.

White Strasburg. Shape tapering; skin and flesh both white; excellent summer variety. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 20 cts., lb. 65 cts.

Giant White Stuttgart. Medium early, large and heavy; pure white throughout; very tender and delicious flavor. Very popular sort. Pkt. 5c., oz. 10c., $\frac{1}{4}$ lb. 20c., lb. 60c.

Long White Vienna, or Lady Finger. Pure white in color; of long, tapering shape; very attractive in appearance. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 20 cts.

White Icicle. A fine long white and very early sort, ready in twenty to twenty-five days after planting. Its transparent, white skin, makes it a very attractive market and table variety. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 30 cts., lb. \$1.

WINTER RADISHES

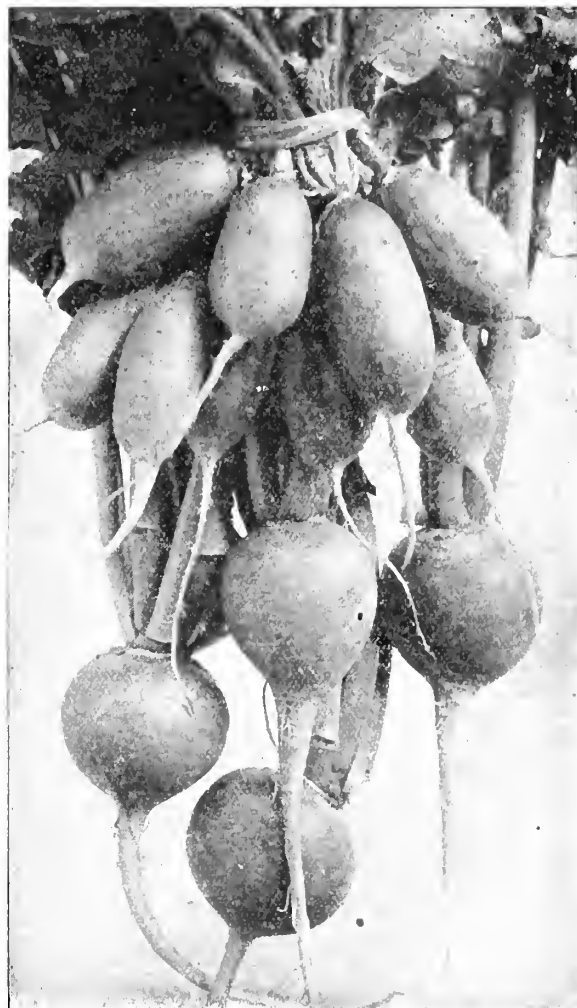
Rose China. Bright rose-color; flesh firm and piquant; fine for winter use. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 20 cts., lb. 60 cts.

Long Black Spanish. The popular winter sort. Pkt. 5c., oz. 10c., $\frac{1}{4}$ lb. 20c., lb. 60c.

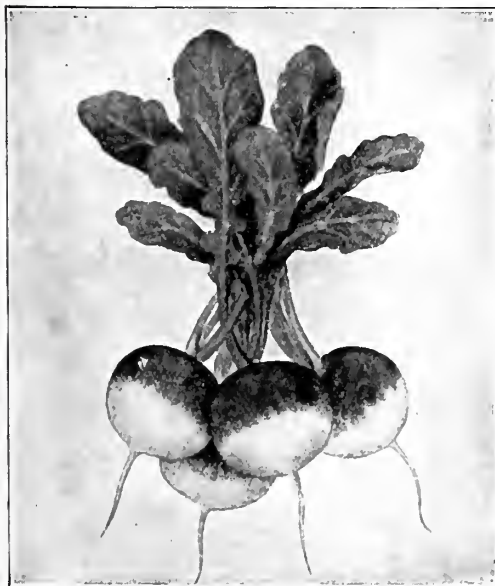
Round Black Spanish. Fine for winter use. Pkt. 5c., oz. 10c., $\frac{1}{4}$ lb. 20c., lb. 60c.

Half-Long Black Spanish. A fine market-gardeners' strain. Flesh white and crisp; fit to use early in the fall. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 25 cts., lb. 75 cts.

California Mammoth White Winter. A white-fleshed Radish of excellent quality. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 25 cts., lb. 75 cts.



Early Scarlet Globe and French Breakfast Radishes

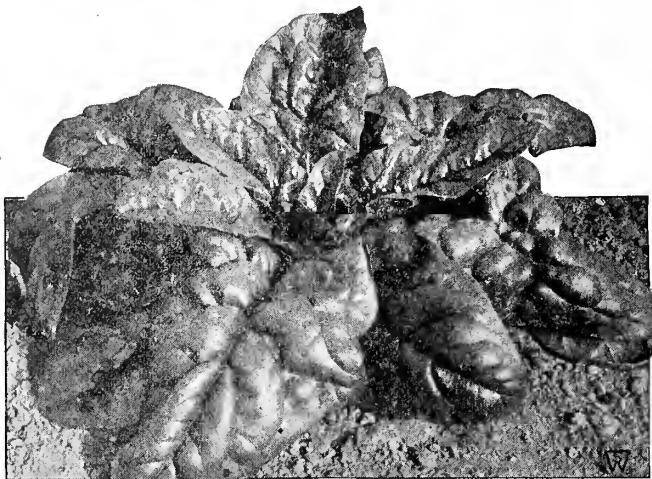


"Cooper's Sparkler" Radish

SPINACH

One ounce will sow about 100 feet of drill

CULTURE.—Sow in March or April in drills an inch deep and 14 inches apart; again in August or September. Spinach delights in very rich soil—in fact, it is of no use sowing in a poor one.



New York Market Spinach (Long Island Crown)

S. & W. Co.'s New York Market. (Long Island Crown.)

This Spinach grows rapidly and produces unusually large, thick, crumpled leaves of beautiful green. Properly cultivated and manured, the plants very often measure 2 feet across, and stand the winter better than any other sort of Spinach. Pkt. 10 cts., oz. 20 cts., ¼lb. 50 cts., lb. \$1.50.

S. & W. Co.'s Savoy-leaved. A valuable variety with wrinkled leaves, resembling the Savoy Cabbage; hardy and prolific. Pkt. 5 cts., oz. 10 cts., ¼lb. 25 cts., lb. 75 cts.

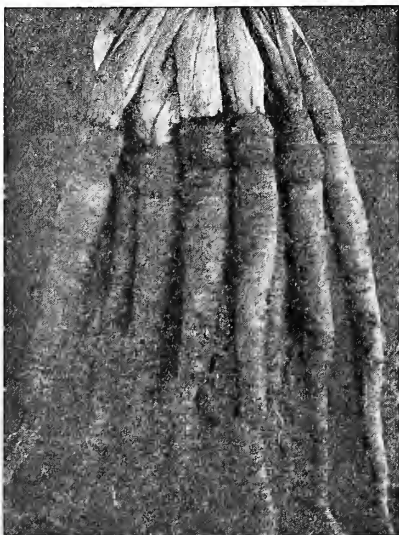
S. & W. Co.'s Large Thick-leaved. Fine market sort. It produces a large, thick leaf and stands for a long time before running to seed. Pkt. 5 cts., oz. 10 cts., ¼lb. 25 cts., lb. 75 cts.

S. & W. Co.'s Long Season. A distinct variety, standing from two to three weeks longer than any of the other sorts in this climate without going to seed. Pkt. 10c., oz. 15c., ¼lb. 35c., lb. \$1.

S. & W. Co.'s Monstrous Viroflay. A fine selection of the old Lettuce-leaved Spinach. Excellent for summer use. Pkt. 5 cts., oz. 10 cts., ¼lb. 25 cts., lb. 75 cts.

New Zealand.

Produces leaves in great abundance throughout the summer; it should be transplanted 2 by 3 feet. Pkt. 5 cts., oz. 10 cts., ¼lb. 30 cts., lb. \$1.



Mammoth Sandwich Island Salsify

SALSIFY

Vegetable Oyster

One ounce will sow about 50 feet of drill.

CULTURE.—Sow the seed early in spring, in drills 12 inches apart and 1 inch deep, thinning out the young plants to 6 inches. The roots will be ready in October, when a supply should be taken up and stored like carrots. Those remaining will suffer no injury by being left in the ground until spring.

Mammoth Sandwich Island. Tender and delicious. Superior to all other sorts. Pkt. 10 cts., oz. 20 cts., ¼lb. 60 cts., lb. \$2.

SCORZONERA

One ounce will sow about 50 feet of drill

CULTURE.—Cultivate the same as salsify. The roots should not be scraped, but simply washed, boiled tender, then peeled and served like asparagus. Pkt. 10 cts., oz. 25 cts., ¼lb. 75 cts.

SORREL

One ounce will sow about 100 feet of drill

CULTURE.—Sow early in the spring in drills 6 to 8 inches apart.

Garden. Used for soups and salads on account of its pleasant acid flavor. Pkt. 10 cts., oz. 25 cts., ¼lb. 60 cts., lb. \$2.25.

SEA-KALE

One ounce will produce about 300 plants

Sow an inch deep in drills 2 feet apart, thin out to 6 inches, and the next spring plant in hills 3 feet apart. Pkt. 5 cts., oz. 25 cts., ¼lb. 75 cts., lb. \$2.50.

SPROUTS

One ounce will plant about 150 feet of drill

CULTURE.—Sow in drills one inch deep, in rows about 2 feet apart, and treat the same as kale.

Spring Sprouts, or English Rape. Pkt. 5 cts., oz. 10 cts.

Winter, or Siberian Kale. Pkt. 5 cts., oz. 10c., ¼lb. 20c., lb. 60c.

SWISS CHARD (Spinach Beet)

One ounce will sow about 100 feet of drill

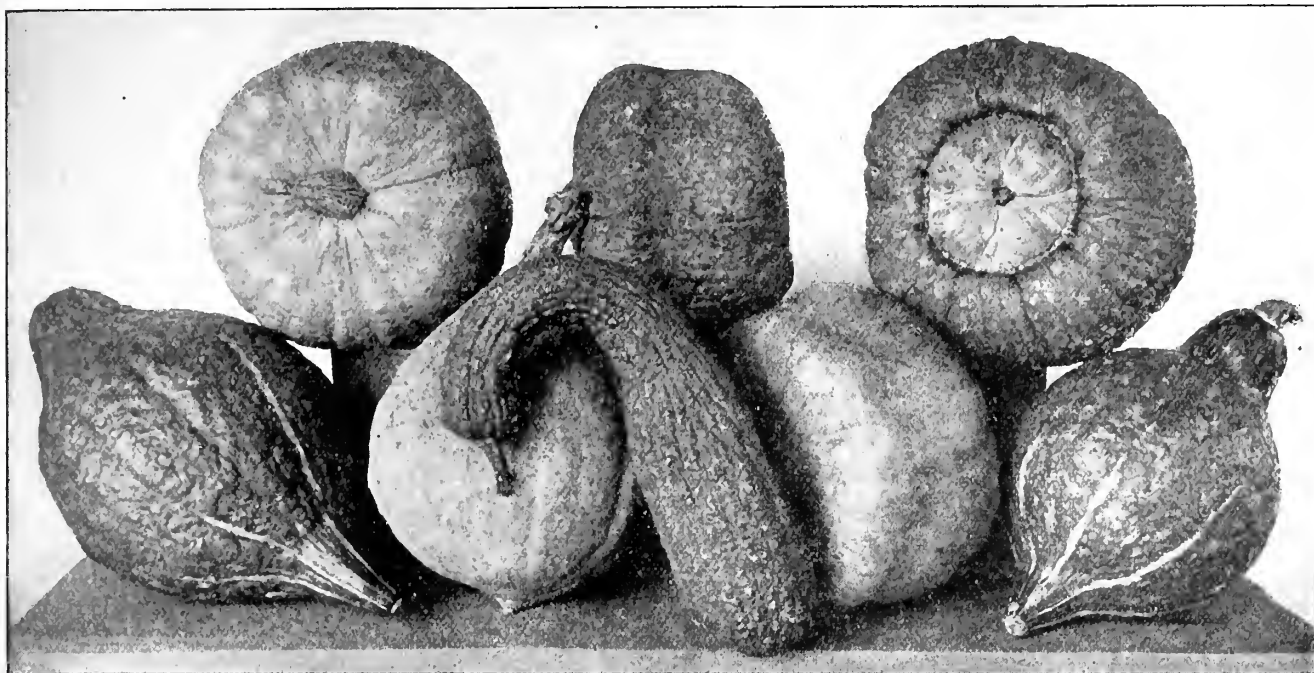
If your garden space is limited, Swiss Chard must have a place, for, in ground occupied, Swiss Chard produces more food for the table than almost any other vegetable. The leaves are used for greens the same as spinach or beet-tops; they are equal in quality and easier to prepare than spinach, and far superior to beets. Sow as early in spring as the ground can be worked, in rows 12 inches apart, and thin out to 5 inches apart in the rows. As it grows, thin out for use. It can be used all summer when spinach is not available. Later, the leaves grow very large, with broad, flat, pure white stems, and midribs which may be cooked like asparagus.

Giant Lucullus. Plants of this variety grow to a height of 2 to 2½ feet. The stalks are quite thick, 1½ inches broad, heavily ribbed and from 10 to 12 inches long below the leaf. These stalks are splendid when cooked and served in the same manner as asparagus. The extra-large leaves are sharply pointed at the top, while in texture they are heavily crumpled. The leafy portion of the foliage is cooked and served in the same manner as spinach. The leaves and stalks, served as separate vegetables, afford two distinct dishes from the same plant at one time. Pkt. 10 cts., oz. 20 cts., ¼lb. 60 cts., lb. \$1.75.

Green Lyon. Not so tall as the Lucullus, or Wrinkled. Leaves and midrib very broad. Pkt. 5 cts., oz. 15 cts., ¼lb. 50 cts., lb. \$1.50.



Swiss Chard



SQUASH

One ounce of Early Squash will plant about 25 hills
One ounce of Marrow Squash will plant about 50 hills

CULTURE.—The Squash succeeds best in good rich soil. It is not advisable to plant before May 15. Sow in hills in the same manner as cucumbers and melons.

SUMMER VARIETIES

Long Island White Bush. A selection of the Old White Bush Scalloped, and a vast improvement, having less prominent ridges and being much deeper, so that a single Squash actually contains nearly twice as much weight for the same cubic measurement as the old sort. In addition to this, it is of finer quality and very prolific. We can strongly recommend this variety. Pkt. 10 cts., oz. 25 cts., $\frac{1}{4}$ lb. 75 cts.

Giant Bush Summer Crookneck. The Crookneck class of Squash surpasses in quality any of the summer varieties, and in the Giant Bush we have the delicious buttery flavor of the original sort, but of just double the size. Pkt. 10 cts., oz. 25 cts., $\frac{1}{4}$ lb. 60 cts.

Delicata. Early and very prolific; of oblong shape. Ground-color orange-yellow, splashed and striped with very dark green. Although of small size, the Squashes are solid and heavy, while the quality is rich and dry. An excellent "all seasons" Squash. Pkt. 10 cts., oz. 30 cts., $\frac{1}{4}$ lb. 75 cts.

Golden Custard. Mammoth strain of the Early Yellow Scalloped Bush. Golden yellow flesh, quality excellent. Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 30 cts.

VEGETABLE MARROW

A very widely known vegetable in the English market, but little known in this country. The fruits are generally eaten when less than half-grown, as the flesh is then very tender and marrowy. It should always be used in a young state. Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 30 cts.

FALL, OR WINTER VARIETIES

Boston Marrow. A very popular Squash for fall or winter use. Bright orange-color, flesh yellow; oval in form. A splendid keeper and excellent for pies. Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 30 cts.

Chicago, or Warty Hubbard. This is a selection of the largest and best rough-skinned specimens of the Green Hubbard. The strain is an ideal winter Squash for the home market. The vines are of strong, robust growth; fruits very large, heavily warted, splendid shape and dark green; flesh rich and dry. Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 30 cts., lb. \$1.10.

Golden Hubbard. One of the best of the Hubbards for the private garden. The fruits are of the same shape as the green Hubbard, except that they average one-half to one-third less in size. Flesh deep golden yellow, much richer in color than Hubbard. Cooks dry and of rich flavor. Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 30 cts., lb. \$1.10.

Hubbard. Finest of all the late-growing varieties. Bluish green color, occasionally marked with brownish orange. Will keep from September to May. Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 50 cts.

Perfect Gem. Round, white, very productive, and of fine quality. Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 30 cts.



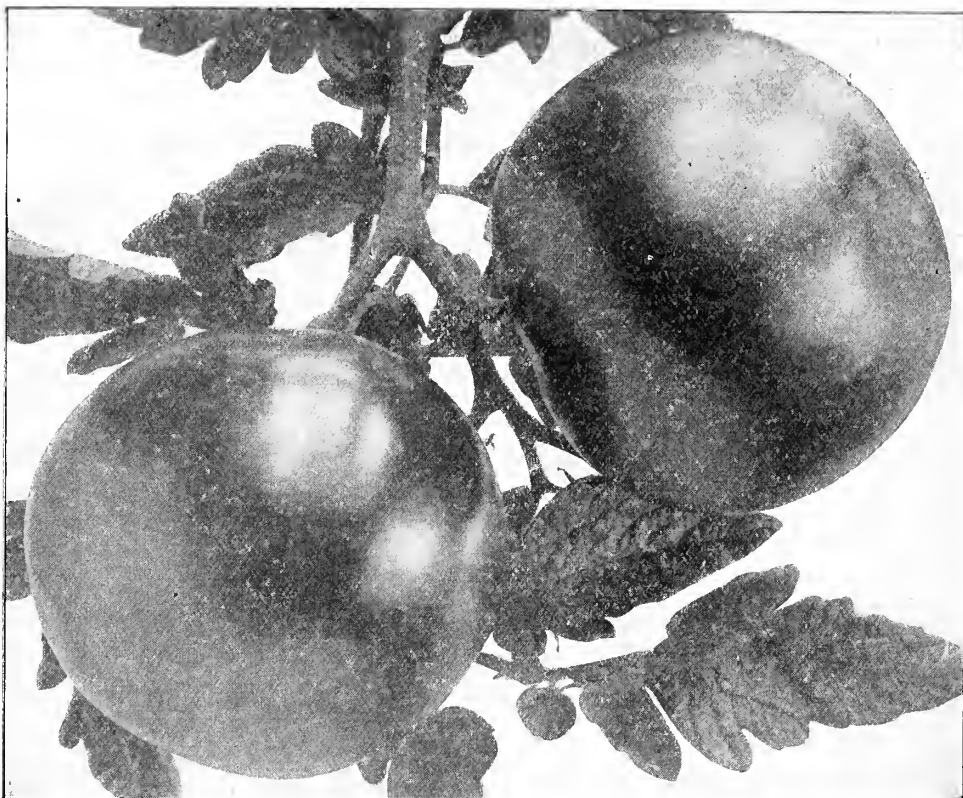
Long Island White Bush Squash

Our List of Dahlias and Gladioli contains many of the best varieties in commerce.

TOMATO

One ounce will produce
about 1,000 plants

CULTURE.—The seed should be sown in a hotbed about the first week in March, in drills 5 inches apart and half an inch deep. When the plants are about 2 inches high, they should be transplanted into another hotbed and planted 4 inches apart, or planted in 4-inch pots, allowing a single plant to a pot.



Crimson Cushion Tomatoes

About the 15th of May the plants may be set out in the open ground 3 feet apart. Water freely at the time of transplanting. Sufficient plants for a small garden may be started by sowing a few seeds in a shallow box or flower-pot, and placing it in a sunny window of the room or kitchen. The fruit is greatly improved in quality if the vines are tied to a trellis or to stakes.

FORCING

S. & W. Co.'s Best of

All. A variety of matchless form and color. Fruits beautiful, smooth, round and wonderfully prolific. Color of rich scarlet-red; setting very free in bunches. Equally good for outdoor culture as for forcing. Pkt. 15 cts., 1/4 oz. 75 cts., oz. \$2.50.

Comet. This is a splendid variety of Tomato, and grown very largely in this country by both private and market-gardeners. It is very short-jointed, fruiting close up to the stem. The Tomatoes are of medium size; deep scarlet. Pkt. 10 cts., 1/4 oz. 50 cts., oz. \$1.50.

Stirling Castle. A very superior variety for either forcing or outdoor culture. Very heavy cropper, of medium size, smooth and round. Color a clear red. Remarkable for its freedom of set and delicious flavor. (Seed English-grown.) Pkt. 15 cts., 1/4 oz. 75 cts., oz. \$2.25.

GENERAL LIST OF OUTDOOR TOMATOES

EARLY SORTS

Earliana. The Earliest Red Tomato. The plants are of compact growth, with short, close-jointed branches, setting the fruit very freely in the center. The Tomato is of uniform size, averaging 3 inches in diameter, and from 2 to 2 1/2 inches in depth; solid, with few seeds, making a splendid variety for shipping. Pkt. 10 cts., 1/2 oz. 25 cts., oz. 40 cts., 1/4 lb. \$1.25.

Chalk's Early Jewel. About a week later than Earliana. It is of uniformly large size; of brightest red, deep fruited and solid. Bears splendid, large-sized Tomatoes throughout the season, and for quantity and quality of fruit it is easily without a rival among the best extra-earlies. Pkt. 10 cts., 1/2 oz. 20 cts., oz. 35 cts., 1/4 lb. \$1.10, lb. \$4.

June Pink. The earliest pink Tomato, similar to Earliana except that the color is pink instead of red. The fruits are of fair size and ripen evenly, practically permitting the entire crop to be harvested at one time. Pkt. 10 cts., 1/2 oz. 20 cts., oz. 35 cts., 1/4 lb. \$1.10, lb. \$4.

SECOND EARLY, or MAIN-CROP SORTS

Acme. A purple-fruited Tomato, largely grown by the market-gardeners. The vines are large, bearing fruits in clusters of five or six right up to frost. Pkt. 5 cts., oz. 20 cts., 1/4 lb. 70 cts., lb. \$2.50.

Coreless. Large size, globe-shaped, bright red; full stem end, heavy cropper. The two distinctive features which stand out most prominently are great depth from stem to blossom, and the depression at the stem has been almost entirely eliminated. Pkt. 10 cts., 1/2 oz. 30 cts., oz. 50 cts., 1/4 lb. \$1.75.

Crimson Cushion. The Crimson Cushion is more symmetrical in shape than the Ponderosa, and is much thicker through from stem to blossom end; in fact, so marked is this characteristic that it is frequently almost round. The color is brilliant scarlet-crimson, untinged with purple, and ripens up almost to the stem. The flesh is firm and "meaty," and of superb quality. Pkt. 10 cts., 1/2 oz. 30 cts., oz. 50 cts., 1/4 lb. \$1.50, lb. \$4.

Dwarf Champion. Distinct in foliage and habit of growth, being compact and upright; fruits medium size and resembles the Acme in appearance, the color being a purplish pink; very smooth and symmetrical; fine quality and solid. Fruits midseason to frost. Pkt. 5c., oz. 25c., 1/4 lb. 75c., lb. \$2.50.

Dwarf Stone. The largest-fruited of all the dwarf Tomatoes. The fruits are produced in clusters of three to five, and, as the growth is close-jointed, each plant produces a large number. The Tomatoes average 4 inches in diameter and 2 1/2 inches in depth. Its dwarf, compact habit suggests its use to all amateurs. Pkt. 10 cts., 1/2 oz. 25 cts., oz. 40 cts., 1/4 lb. \$1.10, lb. \$4.

Golden Queen. A large Tomato, of splendid shape; deep, rich yellow. Pkt. 10 cts., oz. 25 cts., 1/4 lb. 75 cts., lb. \$2.50.

New Globe. It is of beautiful globe-shape, with quite a percentage of elongated (stem to blossom) fruits, which permits of a greater number of slices being taken than with flat-fruited sorts. Among the very first to ripen, although of large size; very smooth, firm-fleshed, few seeds, ripens evenly; color a beautiful glossy rose, tinged purple. Flavor very delicate and agreeable; splendid slicing variety. The fruit is borne on short-jointed, branching plants in great abundance—literally loaded with fruit. A good general cropper, and one of the very best for greenhouse growing, or first-early crop. Pkt. 10 cts., 1/2 oz. 30 cts., oz. 50 cts., lb. \$5.

SECOND-EARLY OR MAIN-CROP TOMATOES, continued

Matchless. The color is rich cardinal-red. The skin is so tough that it is a splendid keeper and shipper, and is less liable to crack in wet weather than any other large Tomato. Unsurpassed for market or for table. The plant is a strong grower, and is very productive, bearing with undiminished vigor until frost. The fruit is free from core, and the seed-spaces are comparatively small. In flavor among the best. Pkt. 5 cts., $\frac{1}{2}$ oz. 15 cts., oz. 25 cts., $\frac{1}{4}$ lb. 75 cts., lb. \$2.50.

Ponderosa. Few Tomatoes equal this one in size and, while slightly ribbed, it is very solid and luscious for the family garden. The fruit is deep purple, oblong in form, generally ridged or ribbed with small seed-cells and frequently weighs one pound. Pkt. 10 cts., $\frac{1}{2}$ oz. 30 cts., oz. 50 cts., $\frac{1}{4}$ lb. \$1.50, lb. \$5.

Selected Stone. By far one of the best of the main-crop red Tomatoes. It is smooth, with very little core, and is not equaled by any other main-crop sort in its large yield of uniform-sized Tomatoes. Pkt. 10 cts., $\frac{1}{2}$ oz. 15 cts., oz. 25 cts., $\frac{1}{4}$ lb. 75 cts., lb. \$2.50.

SMALL-FRUITING TOMATOES

The fruits of these are largely used for making fancy pickles, preserves, etc. The plants are extremely productive.

Yellow Plum. Fruits are about 2 inches in length and 1 inch in diameter; are of a bright lemon-yellow; solid, fleshy and of excellent flavor. Pkt. 10 cts., $\frac{1}{2}$ oz. 25 cts., oz. 40 cts.

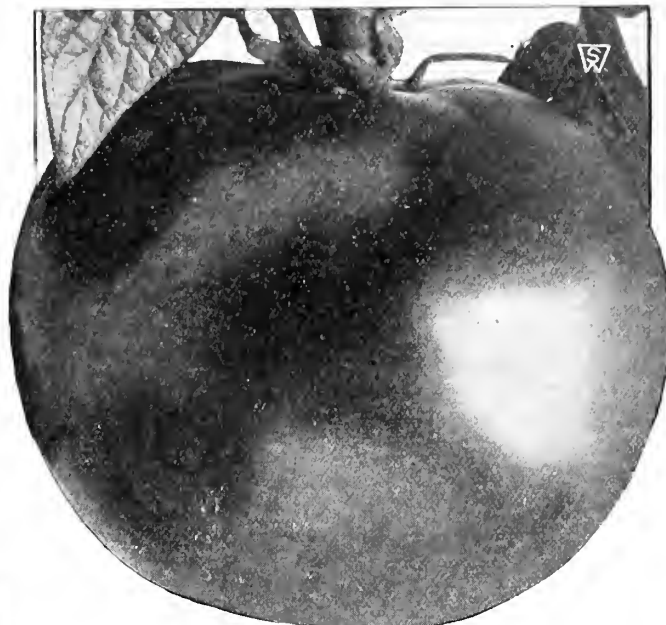
Yellow Pear. Similar to Yellow Plum, except in shape, which is a distinct pear-shape. Pkt. 10 cts., $\frac{1}{2}$ oz. 25 cts., oz. 40 cts.

Peach. The fruits are about $1\frac{1}{2}$ inches in diameter, similar to a peach, of a pinkish color. Pkt. 10 cts., $\frac{1}{2}$ oz. 25 cts., oz. 40 cts.

Yellow Cherry. Small, yellow fruits about $\frac{1}{2}$ inch in diameter, borne in clusters. Pkt. 10 cts., $\frac{1}{2}$ oz. 25 cts., oz. 40 cts.

Red Cherry. Similar to the above except that it is bright red. Pkt. 10 cts., $\frac{1}{2}$ oz. 25 cts., oz. 40 cts.

Red Pear-shaped. A leading favorite for preserves; of distinct pear-shape; fine flavor. Pkt. 10 cts., $\frac{1}{2}$ oz. 25 cts., oz. 40 cts.



Selected Stone Tomato

Strawberry or Husk Tomato. The plants are of dwarf, spready growth and very productive. The fruit is yellow, about size of a good-sized strawberry and is inclosed in a husk. Pkt. 10 cts., $\frac{1}{2}$ oz. 25 cts., oz. 40 cts.

TURNIP

One ounce will sow about
150 feet of drill

CULTURE.—For early Turnips, sow as soon as the ground opens in spring. Rutabagas should be sown from any time in July to first of August; but the other kinds, for winter use, may be sown from the middle of July to the end of August. Turnips are generally sown broadcast, but much larger crops are obtained (particularly of the Rutabagas) by cultivating in drills 18 inches apart, and thinning to 6 inches in the drill. Sow in drills, one pound to the acre; broadcast, two to three pounds to the acre.

Early White Milan. As early as the Early Purple-Top Milan and possesses all of its good qualities. The entire bulb, inside and out, is clear ivory-white in color; the outer surface is perfectly smooth. It grows so quickly that even the outer surface of the bulb is quite tender. Its table qualities are unequalled, being of the most delicate flavor and tempting appearance. It will undoubtedly find a welcome in our markets, as, in addition to the heavy crop assured by its adaptability for close planting, it will be found fit for use at least a week earlier than any other white variety in cultivation. Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 40 cts.

White Egg. Shape nearly oval; flesh firm; smooth white skin; mild and very sweet. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.25.

Early Snowball. Small, solid, crisp and sweet; one of the best for table use. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 30 cts., lb. \$1.

Purple-Top Munich. One of the earliest varieties. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 20 cts., lb. 50 cts.

Red-Top Strap-Leaf. A standard sort, extensively grown for market and private use. Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 40 cts., lb. \$1.25.

White Strap-Leaf. Early variety. Pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 20 cts., lb. 50 cts.

Purple-Top White Globe. An early variety, globe-shaped, heavy cropper, in other respects similar to Red-Top Strap-Leaf. A handsome-looking bulb, and is rapidly taking the lead of all other varieties of early Turnip for market-garden purposes. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 35 cts., lb. \$1.

Golden Ball, or Orange Jelly. This is the most distinct yellow Turnip we know. The flesh is of a very fine texture, making it one of the best table varieties. Its beautiful color and fine flesh have earned for it the synonym of "Orange Jelly," which well describes its appearance when ready for the table. The bulb is of medium size, with small tap-root, and is early in maturing. Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 30 cts., lb. \$1.

Long White, or Cow Horn. A quick-growing, long-shaped variety, flesh fine-grained and sweet, excellent for table use. Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 35 cts., lb. \$1.

White French, or Sweet German. A delicate-flavored variety; an excellent keeper and fine for table use. Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 35 cts., lb. \$1.

Yellow Stone. One of the best yellow-fleshed sorts for table use. Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 35 cts., lb. \$1.

Early Purple-Top Milan. Earliest of all purple-topped Turnips. Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 35 cts., lb. \$1.

Yellow Aberdeen. A very hardy and productive variety of fine form and excellent quality. Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 35 cts., lb. \$1.



Purple-Top White Globe Turnip

ROOT CROPS FOR STOCK-FEEDING

Carrots, Mangels and Rutabagas are essential crops for all kinds of stock, as they act as a food tonic, improving the condition and health of the animals. All animals need some kind of succulent food, and even where ensilage is available, roots are being used in addition, such feeding yielding profitable net returns either in weight or milk.

STOCK CARROTS

Carrots are very valuable for all kinds of domestic animals, and are better for horses than any other root-crop. When fed alternately with oats to work-teams on the farm, the value of Carrots has been found to equal the oats they displace. Succulent food, in part, will always prove beneficial. Carrots are best. Sow two to three pounds to the acre, from the middle of May to July 1 for main crop, 1 foot apart between rows, thin out to 7 inches in the rows.

S. & W. CO.'S STRAIN DANVERS HALF-LONG. Deep orange-color, of medium length, tapering uniformly to a blunt point. Flesh smooth, and although of medium length, this strain will give the largest yield to the acre. **Pkt. 5 cts., oz. 15 cts., 1/4lb. 50 cts., lb. \$1.50.**

LONG ORANGE IMPROVED. An excellent long Carrot, of deep orange-color, doing well in a deep soil. **Pkt. 5 cts., oz. 15 cts., 1/4lb. 50 cts., lb. \$1.50.**

MANGEL-WURZEL

CULTURE.—Sow in drills during May or June, about 2 feet apart, thin out to 9 to 12 inches in the rows. The long varieties are best suited to a deep soil, and the globe sorts succeed better than the long sorts on sandy soil. Six to eight pounds are required for one acre.

Mammoth Long Red. Roots of mammoth size, very regular; small top. Skin bright, dark red; roots grow from one-half to two-thirds above ground and often 2 feet long. Produces large tonnage to the acre. **Oz. 10 cts., 1/4lb. 20 cts., lb. 50 cts.**

Barre's Sludstrup. Has been recommended as holding the record for dry-matter content. This Mangel has been awarded a First-Class Certificate several times by the Danish government, the highest honor in Denmark, where Mangels are as important as corn is here. Sludstrup is a long, reddish yellow, ovoid root, growing more than half above the ground. Easily harvested and is considered to excel most varieties in both weight and feeding value. **Oz. 10 cts., 1/4lb. 20 cts., lb. 60 cts.**

CHAMPION YELLOW GLOBE. Skin a rich yellow; flesh white and solid; grows two-thirds out of the ground, hence a good variety where soil is shallow. Good keeper. **Oz. 10 cts., 1/4lb. 15 cts., lb. 40 cts.**

GOLDEN TANKARD. Smooth, yellow flesh; small, yellow-stemmed top; length 11 inches, diameter 4 inches, shape cylindrical. Usually grows half out of the ground. Easily pulled, good yielder, very hardy and nutritious. **Oz. 10c., 1/4lb. 15c., lb. 40c.**

HALF-SUGAR ROSE. A variety combining the best qualities of sugar beets and Mangels. They are about the same shape as Long Red, but have white skin at the bottom, rose at top. Easier to harvest than sugar beets. **Oz. 10 cts., 1/4lb. 20 cts., lb. 50 cts.**

SUGAR BEET

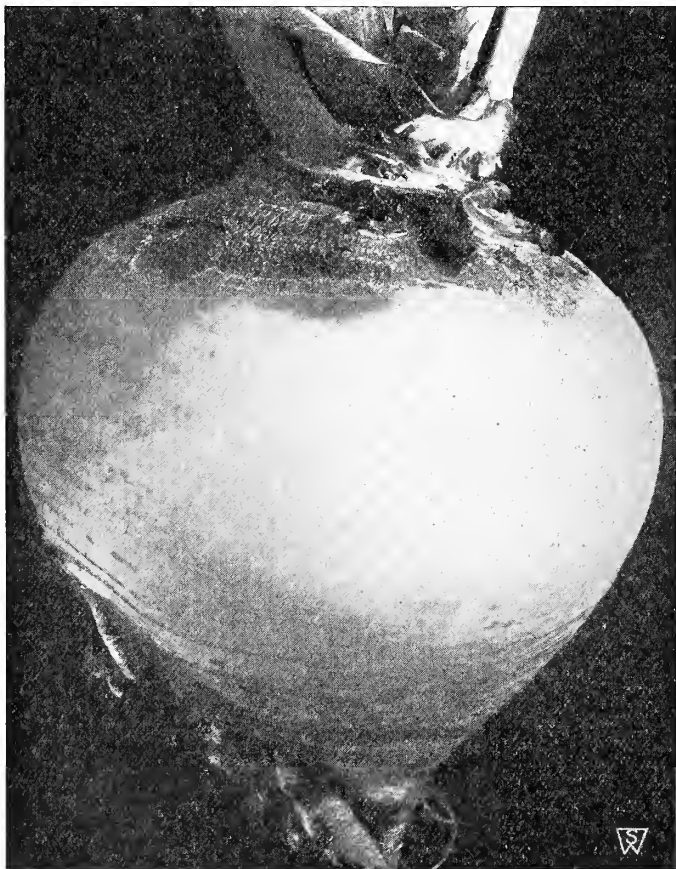
KLEIN WANZLEBEN This variety is cultivated on a larger scale than any other Sugar Beet. Root is conical, straight and even, large at top and rapidly tapering. Contains a large percentage of saccharine matter. **Oz. 10 cts., 1/4lb. 15 cts., lb. 50 cts.**

RUTABAGA (Russian or Swedish Turnip)

Sow four pounds to the acre, in June, in drills, 2 feet apart.

S. & W. Co.'s Long Island Improved. This special strain of Rutabaga is grown on Long Island by a very careful grower. It is of a remarkably uniform shape and fine quality, and is also a splendid keeper. It grows to a large size, the skin is smooth, and flesh is beautiful yellow and fine-grained. **Pkt. 5 cts., oz. 15 cts., 1/4lb. 30 cts., lb. \$1.**

IMPROVED AMERICAN PURPLE-TOP. A yellow-fleshed Purple-Top; great cropper; excellent for table or stock. **Pkt. 5 cts., oz. 15 cts., 1/4lb. 25 cts., lb. 80 cts.**



S. & W. Co.'s Long Island Improved Rutabaga



Mammoth Long Red Mangel-Wurzel

GENERAL LIST OF FLOWER SEED

In presenting this list of **Flower Seeds** for your attention, every care has been taken to secure **seeds** from sources of supply known to us, and from our experiences and from our tests at our **trial grounds**, to be of the highest possible merit. Our Flower Seeds are selected with an idea of superiority of strain and we handle only the highest possible types in each respective class.

We mail all Flower Seeds **FREE OF COST** to any Post Office in the United States.

ANNUALS grow from seed, flower and mature their seed the same season.

HARDY ANNUALS can be sown outdoors in open ground.

HALF-HARDY ANNUALS should be started early in house or hot-bed and transplanted to the open ground as soon as danger of frost is past.

BIENNIALS are sown usually from early July to late August, and come to bloom next season.

HARDY BIENNIALS may be left in the ground over winter.

The following abbreviations will be used to designate the classes under which various Flower Seeds offered come.

H.C. Hardy Climbers.

G.B. Greenhouse Bulbous Plants.

G.C. Greenhouse Climbing Plants.

G.P. Greenhouse Plants.

G.S. Greenhouse Shrubs.

ABUTILON, Finest Mixed (Chinese Bellflower, Flowering Maple). G. S. Attractive coolhouse shrub and window plant. Perpetual-blooming plants, bearing lovely bell-shaped flowers; valuable both for winter decoration and summer bedding. Height 4 feet. Pkt. 25 cts., 1-32 oz. \$1.

ABRONIA. Verbena-like plants, very fragrant, especially toward evening. Charming trailers for vases, rockwork, etc. Half-hardy annuals.

Umbellatum. Rosy pink. Height $\frac{3}{4}$ ft. Pkt. 5 cts.

Arenaria. Lemon-yellow. Height $\frac{3}{4}$ ft. Pkt. 5 cts.

ABRUS Precatorius (Prayer Bean; Crab's Eye). Chiefly remarkable for its small, egg-shaped seeds, which are of a brilliant scarlet, with a black mark. These seeds are used for necklaces and other ornamental purposes. Pkt. 10 cts.

ACACIA. Decorative greenhouse shrubs with elegant foliage; flowers yellow, white or red. 3 to 6 feet. Perennial.

Mixed Varieties. Pkt. 5 cts.

ACHILLEA

Ptarmica, The Pearl (Sneezewort). Hardy perennial. One of the best, bears a profusion of small, double, white flowers during the entire season. Fine for cutting. Height $2\frac{1}{2}$ feet. Pkt. 25 cts., $\frac{1}{8}$ oz. \$2.

ACONITUM

(Monkshood, or Wolfsbane)

Napellus. A hardy perennial, growing in any good garden soil, producing long spikes of curiously shaped blue flowers. Well adapted for planting among shrubbery. 3 to 5 feet. Pkt. 10 cts., $\frac{1}{4}$ oz. 35 cts.

Napellus albus. The white variety. Pkt. 10 cts., $\frac{1}{4}$ oz. 35 cts.

Finest Mixed. All colors. Pkt. 10 cts., $\frac{1}{4}$ oz., 25 cts.

ACROCLINIUM. See page 73.

ADONIS

Æstivalis (Pheasant's Eye). Hardy annual. Dark green foliage; scarlet flowers. 1 foot. June to August. Pkt. 5 cts., oz. 25 cts.

Autumnalis (Flos Adonis). Small, crimson flowers, with dark center; globose, 1 foot. May to July. Pkt. 5 cts., oz. 25 cts.

Vernalis (Spring Adonis). Hardy perennial, with large yellow flowers in the early spring. 1 foot. May. Pkt. 10 cts., oz. 75 cts.

HALF-HARDY BIENNIAL. Protection of coldframe is necessary over winter.

PERENNIALS grow from seed, and flower annually for a number of years. They bloom the season after sowing, but can be had in flower the first season if planted early in a moderate heat.

HARDY PERENNIALS can be left in the open ground without any protection, but this is not recommended. Protection is beneficial.

HALF-HARDY PERENNIALS require protection of a coldframe or greenhouse during winter.

AGERATUM (Floss Flower)

One of the very best bedding plants, being literally a sheet of bloom from early summer till frost. Unlike many bedding plants, their flowers are not liable to be spoiled by rain, nor do the colors fade out. The various blue varieties are, without doubt, the most satisfactory bedding plants of this color for our trying climate. Easily raised from seed, which is usually started in a hotbed or window and transferred to the open ground in May. Can also be sown outdoors in May. A sowing in September will give plants to bloom all winter. Half-hardy annual.

Album. Pure white sort, growing about 10 inches high. Pkt. 15 cts., oz. 50 cts.

Little Blue Star. A very dwarf variety used largely for edging, growing about 4 to 5 inches high; bright blue flowers. Pkt. 5 cts., 2 pkts. 25 cts.

Little Dorrit, Blue. This variety grows about 6 inches high; flowers bright blue. Pkt. 10 cts., oz. 75 cts.

Little Dorrit, White. Same in habit as preceding only white. Pkt. 10 cts., oz. 75 cts.

Mexicanum Capella. Distinct variety growing about 9 inches high; flowers rosy chamois. Pkt. 15 cts., 2 pkts. 25 cts.

Princess Pauline. A very beautiful variety of compact, even growth, rarely exceeding 8 inches in height; the flowers are sky-blue with a white center. Pkt. 10 cts., $\frac{1}{4}$ oz. 35 cts.

Swanley Blue. Bright blue; height 12 inches. Pkt. 10 cts., oz. 75 cts.



Ageratum, Swanley Blue

AGROSTEMMA

Cœli-rosa (Rose of Heaven). Superb free-flowering hardy annual; rose-colored flowers; fine for cutting. Height $1\frac{1}{2}$ ft. July to Sept. Pkt. 5 cts., oz. 25 cts.

Coronaria (Rose Campion; Mullein Pink). Hardy perennial; flowers dark blood-red and very large; foliage silvery. Height 2 feet. June to September. Pkt. 5 cts., oz. 50 cts.

Coronaria alba. White. Pkt. 5 cts., oz. 50 cts.

Coronaria, Mixed. Pkt. 5 cts., oz. 50 cts.

ALOYSIA citriodora (Lemon Verbena). Greenhouse evergreen; valuable for the fragrance of its foliage; excellent for planting outdoors. 2 feet. Pkt. 10 cts., $\frac{1}{8}$ oz. 50 cts.

ALSTROEMERIA, Finest Mixed. Hardy perennial. Beautiful lily-like flowers, borne in clusters ranging from light yellow to orange. Must be grown in moist, shady spots. Height 3 feet. June to August. Pkt. 25 cts., $\frac{1}{4}$ oz. 75 cts.

ALYSSUM

This most popular hardy annual needs little introduction. Used extensively as a border for the flower-garden, but equally valuable as a cut-flower, owing to its delightful fragrance.

Little Gem (*A. maritimum*). Plants grow very dwarf and spreading; they grow only 3 to 4 inches high, and each plant completely covers a circular space of 12 to 20 inches. Pkt. 5 cts., oz. 50 cts.

Sweet Alyssum (*A. Benthami*). Well-known fragrant white. Pkt. 5 cts., oz. 50 cts.

White Carpet (*A. compactum procumbens*). Pure white; grows only 2 to 3 inches high and flowers profusely. Pkt. 10 cts., oz. \$1.

Saxatile compactum. Hardy Perennial. Excellent rock or border plant, bearing bright yellow flowers from April to June. Height 9 inches. Pkt. 10 cts., oz. 60 cts.

AMARANTUS

Brilliant-foliaged annuals, growing from 3 to 5 feet high, some of the varieties bearing curious racemes of flowers. All are useful in borders of tall plants, or for the centers of large beds. They thrive best in a hot, sunny location and not too rich soil; must be given sufficient room to develop their full beauty.

Caudatus (Love-Lies-Bleeding). Blood-red; drooping. Pkt. 5 cts.

Cruentus (Prince's Feather). Dark red, feathery flowers. Pkt. 5 cts.

Tricolor (Joseph's Coat). Leaves red, yellow and green. Pkt. 5c., 1/4 oz. 15 cts.

AMPELOPSIS Veitchii (Boston or Japan Ivy). Valuable hardy and perennial climber, clinging to walls of wood, brick or stone; foliage dense, of glossy green, changing to red and yellow in the autumn. Pkt. 10 cts., oz. 30 cts.

ANCHUSA

Barrelieri (Alkanet). Hardy perennial. Flowers deep blue, with a white tube and pink throat, borne on spikes 2 feet high; good for cutting. June to September. Pkt. 10 cts., 1/4 oz. 30 cts.

Capensis. Biennial. Flowers azure-blue. 1 1/2 ft. July and August. Pkt. 5 cts., oz. 30 cts.

Italica. Hardy perennial. Deep blue. 3 feet. June to September. Pkt. 5 cts., oz. 50 cts.

Sempervirens. Hardy perennial. Blue. 1 1/2 feet. Pkt. 5 cts., oz. 50c.



Border of Alyssum, Little Gem

Anchusa Italica, Dropmore Variety NEW

The bright blue forget-me-not-like flowers are borne on graceful stems during the entire season and way late into the fall. It is a great improvement over the existing varieties. Hardy perennial. 4 to 5 feet. Pkt. 15 cts., 2 pkts. 25 cts.

ANEMONE, Single Giant de Caen (Windflower). The giant French Anemone. Half-hardy perennial. Excellent for cutting. 9 inches. Pkt. 5 cts., 1/4 oz. 50 cts.

St. Brigid (Irish Anemone). A great variety of colors. Pkt. 15 cts., 1/8 oz. \$1.

ANTHEMIS Kelwayi (Marguerite). Hardy perennial. Large, daisy-like yellow flowers; good for cutting. Height 2 feet. July to September. Pkt. 10 cts., oz. 60 cts.

Nobilis. White. 2 feet. Pkt. 10 cts., oz. 60 cts.

AQUILEGIA (Columbine)

The Aquilegias are fine, free-flowering, hardy border plants. Seed may be planted in the open ground early in the spring, and will, in the case of single varieties, bloom the same season. Best results are obtained by planting in August, when they will come up early in the spring, making vigorous plants, and will bloom during late spring and early summer.

Giant Long-spurred, Mixed. A very excellent mixture of Columbines, comprising new and pleasing shades and combinations, effective and striking in the individual flowers, in many shades of lavender, blue, mauve, white, yellow, orange, scarlet and bright rose-pink. Pkt. 25 cts., 5 pkts. \$1.

Californica hybrida. Beautiful flowers, principally yellow and orange shades. Pkt. 15 cts., 1/4 oz. \$1.25.

Chrysantha. Canary-yellow. About 3 feet. Pkt. 10 cts., 1/4 oz. \$1.

Cærulea. Violet-blue and white. About 2 feet. Pkt. 15 cts., 1/4 oz. \$1.25.

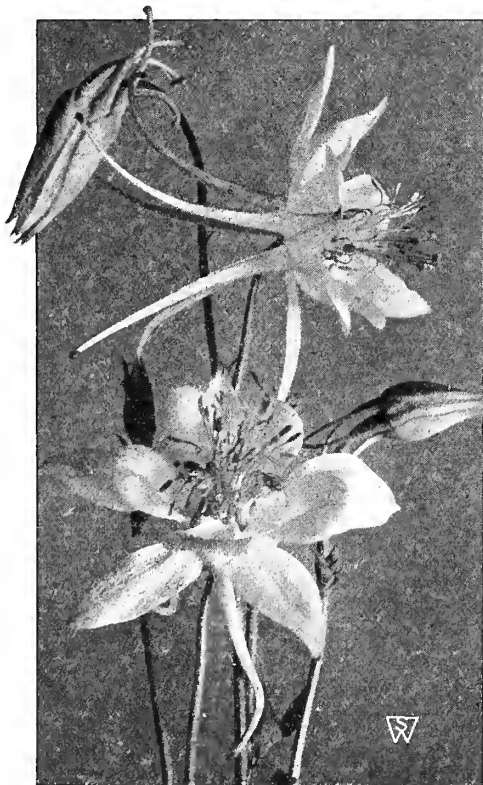
Skinneri. True scarlet tipped with green. 3 feet. Pkt. 25 cts.

Rose Queen. Rose shades with white centers and yellow anther; beautiful. 3 feet. Pkt. 25 cts.

Stewartii. Beautiful, large; pale blue. 2 feet. Pkt. 50 cts.

Double Mixed. Very fine. 3 feet. Pkt. 10 cts.

Single Mixed. Fine varieties. 3 feet. Pkt. 10 cts.



Long-spurred Aquilegias

ANTIRRHINUM (Snapdragon)

Antirrhinums, or Snapdragons, are among the most showy of our half-hardy perennials. When sown under glass in February, they can be brought to bloom during July. As a cut-flower, the tall varieties are exceedingly attractive, while the dwarf varieties look very pleasing when used for borders or edging of beds. Grown under glass, also for winter flowering.

New Antirrhinum, Silver Pink

This delightful Snapdragon has been largely grown in greenhouses during the winter months by florists and gardeners throughout the United States. A splendid half-high sort with flowers of delicate silver-pink. Pkt. \$1.

Giant-Flowered Tall Snapdragons

Height about 3 feet

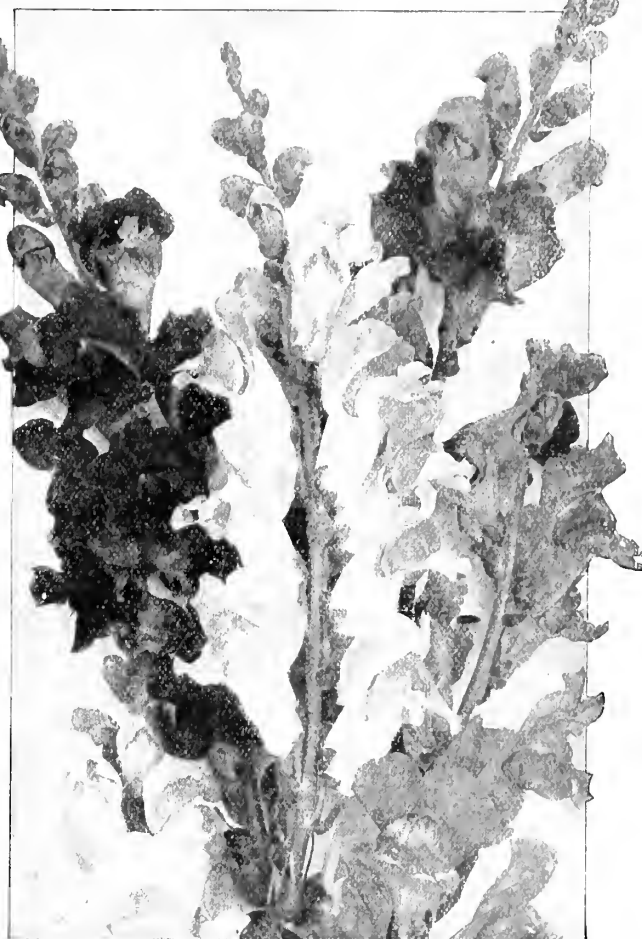
- Coral-Red.** A pretty and attractive shade. Pkt. 10 cts., 1/4oz. 35 cts.
Blood-Red. Striking in color. Pkt. 10 cts., 1/4oz. 35 cts.
Carmine-Rose. Carmine; yellow blotch on lower lip. Pkt. 15 cts., 1/4oz. 60 cts.
Chamois. Very handsome new color. Pkt. 15 cts., 1/4oz. 75 cts.
Albium. Very large; white. Pkt. 15 cts., 1/4oz. 40 cts.
Luteum. Pure yellow. Pkt. 10 cts., 1/4oz. 35 cts.
Rose Dore. A pretty shade of self salmon-rose. Pkt. 15 cts., 1/4oz. 40 cts.
Fairy Queen. Rich salmon, white throat. Pkt. 10 cts., 1/4oz. 35 cts.
Queen Victoria. A very large white. Pkt. 10 cts., 1/4oz. 35 cts.
Scarlet. Very attractive. Pkt. 10 cts., 1/4oz. 35 cts.
Special Mixture, Named Sorts. Pkt. 5 cts., 1/4oz. 25 cts., oz. 75 cts.

Collection: 10 named varieties \$1 00
 5 named varieties 50

Giant-Flowered Semi-Dwarf Snapdragons

Height about 18 inches

- Black Prince.** Dark crimson; foliage dark. Pkt. 10 cts., 1/4oz. 50 cts.
Crimson King. Bright crimson. Pkt. 10 cts., 1/4oz. 50 cts.
Golden Queen. Rich yellow. Pkt. 10 cts., 1/4oz. 35 cts.
Pink Empress. Deep rosy pink. Pkt. 10 cts., 1/4oz. 40 cts.
Queen of the North. White; excellent bedding variety. Pkt. 10 cts., 1/4oz. 35 cts.
Striatum. Very fine striped. Pkt. 10 cts., 1/4oz. 35 cts.
Special Mixture, Named Sorts. Pkt. 5 cts., 1/4oz. 25 cts., oz. 75 cts.
COLLECTION: Six named varieties..... \$0 50



ANTIRRHINUM (Snapdragon)

Giant-Flowered Dwarf Snapdragons

Height about 12 inches

These varieties make very fine pot-plants.

	Pkt.	1/4oz.	Pkt.	1/4oz.
Dwarf White	\$0 15	\$0 50	Dwarf Orange	\$0 15
" Scarlet	15	50	" Rose	15
" Yellow	15	50	" Striped	15
			Mixture, Named Sorts	10

COLLECTION: Six named varieties..... \$0 50

ARCTOTIS GRANDIS (African Daisy)

A remarkably handsome annual from southwest Africa. It forms much-branched bushes 2 to 3 feet high; its flowers are large and showy, being pure white on the upper surface, the reverse of petals pale lilac-blue. There are few annual flowers grown in the garden more valuable for cut-flower work than the Arctotis. It is easily grown from seed, and may be started in hotbed, in the house or in the open ground, the seed germinating in about five days, and the plants may be expected to come into bloom early in July and continue until quite hard frost. It delights in a sunny situation. As a cut-flower it is especially valuable, the blooms lasting a week or ten days in water, and if undeveloped buds are cut and placed in a sunny window, every one will open and produce as fine flowers as though left on the plant. Pkt. 10 cts., 1/4oz. 50 cts.

ARISTOLOCHIA Sipho (Dutel man's Pipe Vine). A very attractive and highly ornamental climber, with flowers resembling the pitcher plant. Pkt. 10 cts.

Asparagus

Plumosus nanus. A graceful pot-plant for either house or conservatory. Finely cut foliage. Pkt. 25 cts., 100 seeds \$1.

Sprengeri. Drooping foliage, adapted for hanging-baskets or cutting. Pkt. 25 cts., oz. 75 cts.



Arctotis grandis

S. & W. CO.'S SUPERB ASTERS

Asters will thrive in any good soil, prepared in the same way as you would for a crop of vegetables, but it is well to remember that any extra care taken in the preparation of the soil is repaid by finer plants, larger blooms, with longer stems and more profuse flowering. They should have an open, sunny position, and prefer a good, heavy, loamy soil enriched with a liberal quantity of Bone Dust No. 2, and an addition of air-slaked lime, and we do not advise growing them on the same ground two years in succession; it is better to change each season. For early flowering, seeds should be started in a sunny window, hotbed or coldframe in April and transferred to their place in the garden as soon as danger of frost has gone by. For August (midseason) and September (late) sow seeds outside in finely prepared ground in May, thinning out to one foot in the rows and two feet between. With the above prescribed treatment and frequent cultivation of plants to insure a steady growth until flowering, excellent large blooms with long stems can be obtained.

Queen of the Market Aster (EARLY)

	Pkt.	1/4oz.	Oz.
Extra-Early White.....	\$0 05	\$0 50	\$1 50
" " Crimson.....	05	50	1 50
" " Rose.....	05	50	1 50
" " Dark Blue.....	05	50	1 50
" " Light Blue.....	05	50	1 50
" " Flesh-color.....	05	50	1 50
" " Pink.....	05	50	1 50
" " Scarlet.....	05	50	1 50
" " Lilac-Red.....	05	50	1 50
" " Finest Mixed.....	05	35	1 25

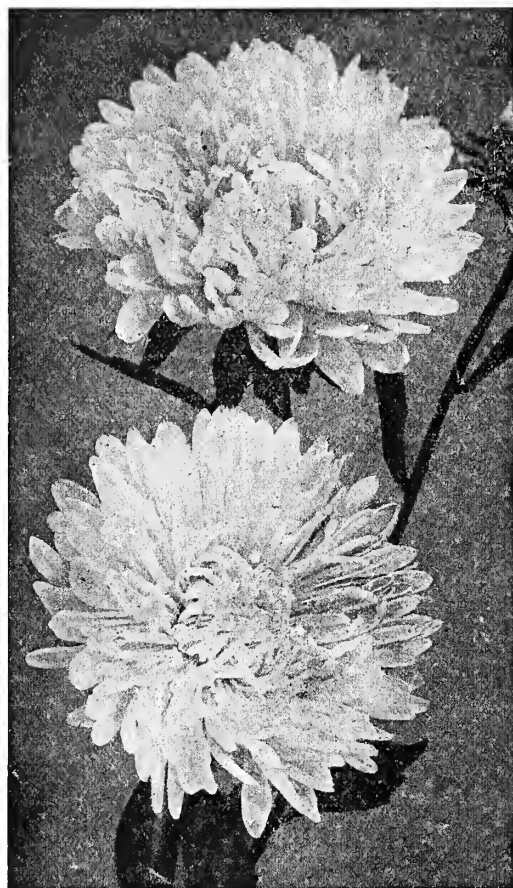
COLLECTION: Packet each, 9 varieties.....\$0 40

Hohenzollern Aster (MIDSEASON)

This splendid Ostrich-feather Aster comes to bloom after Queen of the Market. The plants grow tall and branching, bearing flowers of mammoth size on exceedingly heavy, long stems. Many stems have measured 18 to 24 inches in length. The flowers are large, frequently measuring 6 to 8 inches in diameter.

	Pkt.	500 seeds		Pkt.	500 seeds
White.....	\$0 15	\$0 50	Rose.....	\$0 15	\$0 50
Dark Blue.....	15	50	Crimson.....	15	50
Syringa-Blue. Beautiful blue.	25	1 00	Mixed.....	10	25

COLLECTION: Packet each, 5 varieties.....\$0 75



S. & W. Co.'s Queen of the Market Strain Asters

S. & W. Co.'s Late Branching Aster (LATE)

This exceptionally fine Aster is without a rival. It is as well known in Europe as in America, and although we placed it on the market only a few years ago, today every florist has a fine stock of the flowers in his window just before the chrysanthemum comes in; and it is often mistaken for the chrysanthemum, which it so much resembles. The flowers are of extraordinary size—much larger than other varieties—and stand erect on long, graceful stems, well above the foliage; flower-stems 15 to 20 inches long. Grand for cutting. Plants extra large and of strong growth; one plant will cover a space 2½ feet square. By far the most satisfactory Aster grown.

	Pkt.	1/4oz.
Pure White.....	\$0 10	\$0 50
Rose-Pink.....	10	50
Purple.....	10	50
Carmine.....	10	50
Dark Pink.....	10	50
Lavender.....	10	50
Crimson.....	10	50
Mixed.....	10	40

Any of the above, \$1.50 per oz.

COLLECTION: Packet each, 7 varieties.....\$0 50

Dwarf Chrysanthemum-Flowered Aster

A large-flowering Dwarf Aster; grows about 1 foot high. Excellent for ribbon borders, beds or pots. Blooms during August.

	Pkt.	1/4oz.		Pkt.	1/4oz.
White.....	\$0 10	\$1 00	Carmine.....	\$0 10	\$1 00
Deep Blue.....	10	1 00	Rose.....	10	1 00
Fiery Scarlet.....	10	1 00	Mixed.oz. \$3..	10	1 00
Light Blue.....	10	1 00			



S. & W. Co.'s Crimson Late Branching Aster

ASTERMUMS

A splendid new race of American-raised Asters, selected from the Comet Type. The plants are of upright growth frequently having 12 to 15 strong sturdy stems 18 to 24 inches long each carrying enormous flowers of splendid form, the petals completely covering the center so as to give the impression of one of the large Japanese chrysanthemums. This Aster has been grown with excellent success this past season.

Snow-White.....	Pkt. \$0 25
Rose-Pink.....	25
Lavender.....	25

COLLECTION, 1 pkt. each of the above 3, 60 cts.

Giant Comet Asters

Flowers of immense size, often 6 inches across, composed of long, wavy, twisted petals, gracefully formed into loose, yet densely double half-globes. Each plant bears 15 to 20 flowers on very long stems, making them especially valuable for cutting.

Snow-White.....	Pkt. \$0 10	1/4oz. \$1 00
Rose.....	10	1 00
Light Blue.....	10	1 00
Dark Blue.....	10	1 00
Crimson.....	10	1 00
Shrimp-Pink.....	10	1 00
Yellow.....	10	1 00
Peach.....	10	1 00
Mixed.....	10	1 00

COLLECTION, 1 pkt. each of 8 varieties, 60 cts.

Giant Crego Asters

A flower of the Giant Comet type, often measuring from 4 to 5 inches in diameter and resembling large chrysanthemums. They are of strong growth, attaining the height of 3 feet.

White.....	Pkt. \$0 10	1/4oz. \$1 00
Rose.....	10	1 00
Light Pink.....	10	1 00
Lavender.....	10	1 00
Crimson.....	10	1 00
Mixed.....	10	1 00

Single Comet Asters

This type of Asters has met with considerable demand recently. From a decorative point of view the possibilities are immense; their large blooms, often measuring 5 to 6 inches across, make them truly conspicuous.

White.....	Pkt. \$0 10	1/4oz. \$0 50
Light Rose.....	10	50
Bright Rose.....	10	50
Light Blue.....	10	50
Dark Blue.....	10	50
Mixed.....	10	50

COLLECTION, 1 pkt. each of 5 varieties, 40 cts.

Daybreak

Of symmetrical growth and habit; attains a height of 18 inches, and produces during August in the greatest profusion perfect globe-shaped double flowers, which are of a delicate pink tint. Pkt. 15 cts., 2 pkts. 25 cts.

Purity

This variety is identical in every way to Daybreak, being of the same symmetrical growth, height and free-flowering qualities; the flowers, however, instead of being pink, are pure glistening white. Pkt. 15 cts., 2 pkts. 25 cts.

Mikado Pink Rochester

A Comet variety, very similar to the Crego's Giant offered, but dwarf in growth and comes into bloom fully two weeks earlier. The plants attain a height of about 18 inches, of branching habit, and the flowers, borne on long, strong stems, are of colossal size, flowers five and six inches across being the rule. A charming shade of pink suffused with lavender. Pkt. 15 cts., 2 pkts. 25 cts.



Asterum

HARDY PERENNIAL ASTERS

(Michælmass Daisies)

These handsome flowers are very beautiful and easy of culture.

Alpinus speciosus. Dark blue; height 2 ft. July....	Pkt. \$0 15	1/4oz. \$0 75
Alpinus albus. White.....	15	75
Bessarabicus. Pink; 3 feet. August.....	10	75
Novæ-Angliæ. Mixed; 4 feet. September.....	10	75

Sub-caeruleus.

Large flowers, 3 inches across; very striking, bold orange-yellow center; 2 feet..... 25 1 25

ASPERULA odorata (Sweet Woodruff). Hardy perennial. Handsome creeping plant, with deep green whorled foliage and pretty white flowers. Especially useful for carpeting in shady situations; 6 inches. June and July. Pkt. 10 cts., oz. 80 cts.

AUBRETIA (False Wall Cress). Pretty, dwarf-growing rock plants, forming broad masses of silvery green foliage and sheets of flowers in spring and early summer.

Bougainvillei. Showy purple flowers. Pkt. 10 cts.

Leichtlinii. Bright reddish crimson. Pkt. 10 cts.

BABY'S BREATH. See *Gypsophila*.

BACHELOR'S BUTTON. See *Centaurea*.

BALLOON VINE. Annual climber. Flowers white; seed-vessels like small balloons; pretty foliage; grows rapidly; 8 feet. Pkt. 5 cts., oz. 25 cts.

BAPTISIA australis (False Indigo). Hardy perennial. Free-growing plant, with deep green cut foliage and lupine-like dark blue flowers in long racemes. 3 feet. June and July. Pkt. 5 cts., oz. 30 cts.

BARTONIA aurea. Hardy annual. Very bright golden flowers from July to September. Fine for cutting. 1 ft. Pkt. 5 cts., oz. 25 cts.

BOCCONIA cordata (Plume Poppy, or Tree Celandine). Effective, hardy perennial for single specimens or groups on lawns. Foliage glaucous green, bears freely spikes 2 to 3 feet long of cream-colored flowers; easily raised from seed. 5 feet. Pkt. 5 cts., 1/4oz. 15 cts.



DOUBLE CAMELLIA-FLOWERED BALSAM

DOUBLE CAMELLIA-FLOWERED BALSAMS (Lady's Slipper)

An old and favorite garden flower, producing its gorgeous masses of beautiful, brilliant-colored, double flowers in the greatest profusion; of easiest culture; succeeds in a good, rich soil. Tender annuals. 2 feet. Start the seed indoors in April, or sow out-of-doors in May. When specimens are wanted, plant at least 18 inches apart; splendid when grown in pots.

	Pkt.	Oz.
White Perfection. Large; double; white.....	\$0 10	\$1 00
Scarlet King. Glowing, fiery scarlet; large, double flowers.....	10	1 00
Salmon Queen. Deep rose-pink; large, double flowers.....	10	1 00
Lilac Gem. Beautiful pale lilac.....	10	1 00
Purple King. Double; rich purple.....	10	1 00
Primrose Gem. Double; beautiful primrose; the best yellow variety to date.....	10	1 00

COLLECTION, 1 pkt. each, 6 named varieties, 6 pkts., 50 cts.

S. & W. Co.'s Double, Mixed. A mixture of selected self-colors as well as beautiful, spotted, blotched and striped varieties. Pkt. 10 cts., oz. \$1.

BEGONIAS

Everblooming Bedding Varieties

The following varieties of *Begonia semperflorens* and *gracilis* take rank as bedding plants with geraniums and coleus, doing equally well in full sunlight, and surpassing both in positions partially or wholly in shade. They are of sturdy growth, growing about 1 foot high, and forming dense bushes which, from May until frost, are completely hidden with flowers. As pot-plants for winter flowering they are superb, remaining a sheet of bloom throughout the entire year. Easily raised from seed, which should be started either indoors or in a hotbed.

	Pkt.
Gracilis, Prima Donna. Carmine-rose; brown-tinted foliage.....	\$0 25
Gracilis, Bonfire. Scarlet; metallic brown foliage.....	25
Gracilis luminosa. Brilliant dark scarlet; very effective.....	25
Semperflorens Erfordii. Rosy carmine; green foliage.....	15
Semperflorens, Triumph. Pure, glistening white.....	15
Semperflorens, Vernon. Bright orange-carmine; red foliage.....	10
Tuberous-rooted Single, Mixed. Excellent for indoor culture only.....	25
Tuberous-rooted Double, Mixed. The double form.....	25

BELLIS (English Daisy)

A favorite perennial, which will stand the winter if given the protection of a little litter. In bloom from early spring until well on in the summer. Easily raised from seed, which may be sown anytime from spring until August. For best results, new plants should be raised from seed each year. The following are the finest double-flowering kinds, selected after careful test.

	Pkt.		Pkt.
Giant-flowering White.	\$0 25	Snowball. White.....	\$0 10
" Pink.	25	Longfellow. Pink.....	10
" Mixed.	25	Double Red Quilled.	25

BEAN, Scarlet Runner. The well-known rapid-growing annual climber, with bright red flowers from July to September. Fruit is a most delicious vegetable. 8 feet. Pkt. 5 cts., ½ pt. 15 cts.

BRACHYCOME (Swan River Daisy). Free-flowering, dwarf-growing annuals, covered during the greater part of the summer with a profusion of pretty blue or white flowers, suitable for edgings, small beds or pot culture; 9 inches.

Iberidifolia, Blue. Pkt. 5 cts. **Iberidifolia, White.** Pkt. 5 cts.

BROWALLIA (Amethyst)

One of our favorite profuse-blooming bedding plants, covered with rich, beautiful winged flowers during the summer and autumn months, supplying a shade of intense blue very uncommon; grows freely in any rich soil; blooms finely in the winter if the plants are lifted in autumn and cut back.

Speciosa major. A beautiful-flowering variety of the most brilliant ultramarine-blue; a rare color; does finely outside in the border, or in hanging-baskets or vases, but is especially valuable as a pot-plant for winter and early spring flowering. Pkt. 15 cts.

Nana compacta. Blue. Pkt. 10 cts.

Mixed Colors. Pkt. 5 cts.

CACALIA coccinea (Tassel Flower, or Flora's Paint Brush). A neat annual, of easy culture, with bright red, tassel-shaped flowers; blooms from June to September, fine for borders. Pkt. 5 cts., ¼ oz. 25 cts.

CALCEOLARIA G.P.

The strains offered herewith are grown by a famous English seed-growing specialist and are the finest in existence. The S. & W. Co.'s Giant Strain is intended for conservatory growing; the Rugosa for outside bedding.

S. & W. Co.'s Giant Strain. Pkt. 50 cts.

Rugosa. Shrubby; for bedding. Pkt. 50 cts.

CHELONE (Turtle Head)

Barbata coccinea. Red. Summer. 3 feet. Pkt. 10 cts.

Barbata Torreyi. Coral-red. Summer. 3 feet. Pkt. 10 cts.

Lyonii. Deep red. Summer. 2 feet. Pkt. 10 cts.

CERASTIUM tomentosum (Snow-in-Summer). A very pretty dwarf, white-leaved edging plant, bearing small white flowers; hardy perennial. Pkt. 15 cts.

CALENDULA (Pot Marigold)

This is one of the best and showiest, free-flowering hardy annuals, growing in any good garden soil, producing a fine effect in beds or mixed borders; particularly bright in late fall, continuing in bloom from early summer until killed by frost; valuable also for pot culture, blooming freely in winter and early spring. 1 foot.

Meteor. Large; double; yellow, each petal striped with orange. Pkt. 5 cts., oz. 25 cts.

Prince of Orange. Similar to Meteor, but darker. Pkt. 5 cts., oz. 25 cts.

Sulphurea fl. pl. Large, double flowers of pleasing sulphur-yellow. Pkt. 5 cts., oz. 25 cts.

Ranunculoides fl. pl. Striped and margined. Pkt. 5 cts., oz. 25 cts.

Pongee fl. pl. Large, double, white flowers. Pkt. 5 cts., oz. 25 cts.

CALLIOPSIS

Showy and beautiful, free-flowering annuals and perennials, of the easiest culture, doing well in any sunny position, blooming all summer and excellent for cutting and mrsing. It is best to sow them where they are to bloom, thinning out to stand 6 inches to 12 inches apart. By keeping the old flowers cut off the flowering season can be lengthened until late autumn.



Campanula pyramidalis

ANNUAL VARIETIES

Golden Wave (Drummondii). A very popular sort, with rich golden yellow blooms with a small chestnut-brown center. 12 inches. Pkt. 5 cts., 1/4 oz. 15 cts.

Tinctoria marmorata. Very showy variety; bright golden yellow flowers, marbled with wallflower-red. 12 inches. Pkt. 5 cts., 1/4 oz. 15 cts.

Coronata. Rich yellow, slightly spotted with red. Pkt. 5 cts., 1/4 oz. 15 cts.

Tall, Mixed. Pkt. 5 cts., 1/4 oz. 15 cts.

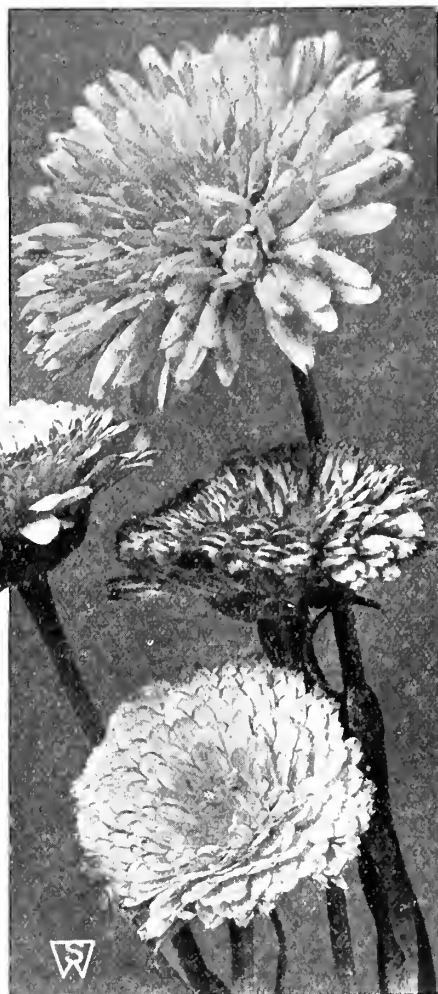
Dwarf, Mixed. Pkt. 5 cts., 1/4 oz. 15 cts.

PERENNIAL VARIETIES

The following two varieties of Perennial Calliopsis are usually sown in June and transplanted 18 to 24 inches apart. Give slight winter covering. May be had in flower the first year if sown under glass in January.

Grandiflora. Deep golden yellow, cup-shaped flowers, on fine stems for cutting. 2 feet. All summer. Pkt. 10 cts., oz. 50 cts.

Lanceolata grandiflora. Same as above except that the foliage is lanced. Pkt. 10 cts., oz. \$1.



Calendula

CAMPANULA, or BLUEBELLS

PERENNIAL VARIETIES

These are among our best-known hardy perennials. The tall varieties are fine for cutting, while the dwarf sorts make excellent border plants. All have dainty bell-shaped flowers. Some of the varieties offered will flower the first season from seed if sown early.

FOR BIENNIAL VARIETIES, SEE NEXT PAGE

Carpatica. This variety is largely used for edging. Flowers of deep blue, blooming all summer. Height about 6 inches. Pkt. 10 cts., 1/4 oz. 30 cts.

Carpatica alba. The white-flowered form of the above. Pkt. 10 cts., 1/4 oz. 30 cts.

Macrantha. Blue. Pkt. 10 cts., 1/4 oz. 30 cts.

Persicifolia grandiflora, Blue (Peach Bells). One of the finest of the hardy Bellflowers; grows 2 to 3 feet high, with large, blue flowers. Pkt. 15 cts.

Persicifolia grandiflora alba. The white-flowered form of the above. Pkt. 15 cts.

Persicifolia fl. pl. Moerheimi. Similar to the varieties above except that the flowers are double; pure white. Pkt. 20 cts., 3 pkts. 50 cts.

Persicifolia, Fairy Queen. The finest-colored Bluebell. Rich azure-blue, very large flowers. Pkt. 25 cts.

Pyramidalis (Chimney Bellflower). Spikes 3 to 4 feet tall; erect, pyramidal flowers, large and of beautiful blue. Splendid for both garden and pot culture. Pkt. 10 cts., 1/4 oz. 30 cts.

Pyramidalis, White. Pkt. 10 cts.

CANARY-BIRD FLOWER (Tropæolum). A rapid-growing, climbing annual, producing hundreds of its pretty, fringed, bright yellow flowers, which resemble a canary-bird with expanded wings. Pkt. 5 cts., oz. 50 cts.

CAMPANULA MEDIUM

(Canterbury Bell)

These are strictly biennials, and require to be sown from June 1 to September 1; when strong enough, transplant to a distance of 6 inches apart; after frost has set in, protect with leaves and straw. They flower the following June, after which they die. Their colors are so pure that gorgeous effects can be achieved with them.

	Pkt.	Oz.		Pkt.	Oz.
Single White.....	\$o 10	\$o 50	Single Striped.....	\$o 10	\$o 50
Single Rose.....	10	50	Single Mixed.....	05	35
Single Blue.....	10	50	Double Mixed.....	10	75

CAMPANULA CALYCANTHEMA

(Cup-and-Saucer)

These produce beautiful, large, single flowers resembling a cup and saucer; they require the same treatment as *Campanula Medium*.

	Pkt.	1/2oz.		Pkt.	1/2oz.
Blue.....	\$o 10	\$o 50	Rose.....	\$o 10	\$o 50
White.....	10	50	Striped.....	10	50
			Mixed.....	10	40

CANDYTUFT (Iberis)

The Candytuft is almost as fragrant as the sweet alyssum and very popular. Very useful as a bedding plant or for border work. Sow outdoors in April, where it is to bloom, and thin well when the plants grow about 1 inch. Sow also in July for fall blooming. Where grown in rows, best results for cut-flowers can be obtained only by giving the plants at least a foot apart in the rows and 1½ feet between the rows.

S. & W. Co.'s Giant Hyacinth-flowered. Immense white spikes; largely grown for cut-flowers. Pkt. 25 cts., oz. \$3.

Empress. Excellent; white. Pkt. 10 cts., oz. \$1.

Queen of Italy. Fine pink. Pkt. 10 cts., oz. 50 cts.

Rose-Cardinal. Deep pink. Pkt. 10 cts., oz. \$1.

Dunnett's Crimson. Deep crimson. Pkt. 10 cts., oz. 30 cts.

Carmine. Pkt. 5 cts., oz. 35 cts.

Fragrans. Sweet-scented; white. Pkt. 10 cts., oz. 75 cts.

White Rocket. Large trusses. 1 foot. Pkt. 5 cts., oz. 35 cts.

Pink Beauty. New. Fine pink. 1 foot. Pkt. 15 cts., oz. \$1.50.

Lilacina. Lilac. 1 foot. Pkt. 5 cts., oz. 25 cts.

Purple. Purple. 1 foot. Pkt. 5 cts., oz. 25 cts.

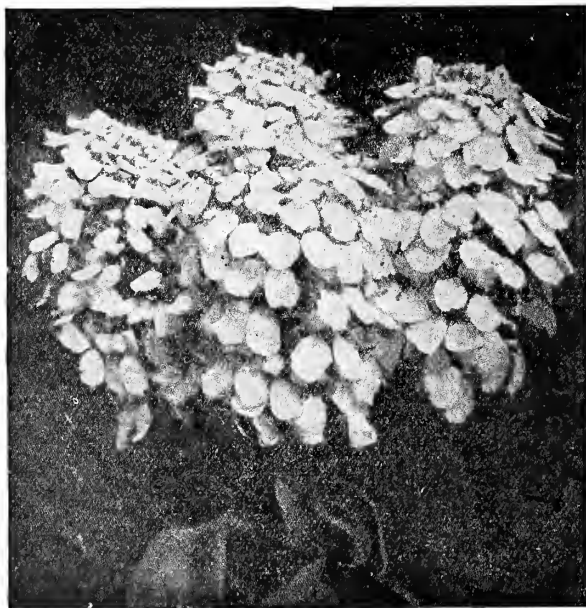
Mixed, All Colors. Pkt. 5 cts.

PERENNIAL CANDYTUFT

A very early-flowering variety; largely used in the hardy border. Foliage exceedingly pleasing in color and very decorative.

Gibraltarica. White, shaded pink. Pkt. 25 cts.

Sempervirens. Pure white flowers; evergreen foliage. Pkt. 10 cts.



Giant Hyacinth-flowered Candytuft



Campanula Medium

CARNATIONS

Carnations are general favorites for their delicious fragrance and richness of colors. They are indispensable, both for greenhouse culture in winter and for the garden in summer. The Marguerite and Chabaud's type are the best for summer-flowering.

Chabaud's Everblooming. Raised by a famous French specialist. Blooms in five months after being sown, and continues to flower in the greatest profusion indefinitely. Mixed colors. Pkt. 25 cts.

GIANT MARGUERITE CARNATIONS

These are deservedly the most popular Carnations with the amateur, as they begin flowering in July or August if sown early in the spring. The strain offered is of extra-fine quality, producing on long, strong stems an abundance of large, double, beautifully fringed, highly scented flowers; with slight protection they will survive an ordinary winter and bloom freely the following spring.

Giant Pink	Giant Scarlet
Giant White	Giant Striped
Giant Crimson	Giant Mixed

Pkt. of any of the above 10 cts., 1/4oz. \$1, oz. \$3

COLLECTION, 5 pkts., 5 varieties..... 40 cts.

**AMERICAN LONG-STEMMED, PERPETUAL-
FLOWERING CARNATION**

America has led the world the last few years in developing the Carnation. Our improved kinds, such as the florists grow for cut-flowers, produce immense flowers of perfect form and doubleness and on strong, long stems. and the colors are varied and beautiful. The seed is saved from such varieties as White Perfection, Windsor, Aristocrat and Lady Bountiful. In mixture only.

Mixed Colors. Pkt. 25 cts.

CASTOR-OIL PLANT (Ricinus)

The Ricinus are tall, stately growing plants of tropical appearance; their luxuriant foliage renders them exceedingly ornamental. They are free-growing, tender annuals of easy cultivation. Half-hardy annuals.

Africanus. Very large green foliage	Pkt. \$0 05
Zanzibarensis. New Giant Castor-Oil Plant from Africa	10
Barboniensis arboreus. Large and handsome green foliage. 15 feet	05
Communis (Castor-Oil Plant). Green foliage. 6 feet	05
Gibsonii. Dark, purplish-red foliage. 6 feet	05
Cambodgensis. Leaves bronzy maroon, with red veins; stems black	05
Duchess of Edinburgh. Dark red foliage. 6 feet	05
Gibsonii Mirabilis. Dwarf, compact; very fine	05
Sanguineus. Tricolor, red spotted; fruit in clusters; red foliage. 10 feet	05
Mixed.	lb. \$1, oz. 15 cts. 05

CELOSIA

Celosia cristata (Cockscomb)

Free-blooming annuals, growing best in rather light soil, not too rich; make grand border plants and are attractive for pots. Seed can be sown under cover in early spring and planted out in May, or may be sown outdoors in May. If dwarf growth is desired, do not crowd.

Empress. Rich crimson. 1 foot. Pkt. 10 cts., 1/4 oz. 50 cts.
Glasgow Prize. Dark crimson. 1 foot. Pkt. 5 cts., 1/4 oz. 50 cts.
Dwarf Mixed. 1 foot. Pkt. 5 cts., 1/4 oz. 40 cts.

COLLECTION, 6 pkts. Dwarf varieties, 25 cts.

Celosia plumosa (Feathered Cockscomb)

Make fine plants for large beds or groups, and the plumes or flowers can be cut and dried for winter bouquets. Should be treated same as Cockscomb described above.

Ostrich-plumed, Yellow or Crimson. Pkt. 10 cts., 1/4 oz. 50 cts.
Ostrich-plumed, Mixed. Pkt. 10 cts., 1/4 oz. 50 cts.
Spicata. Rose, changing to silvery white; fine for pots, cutting and drying. Pkt. 25c., 1/4 oz. 75c.

Celosia Thompsonii magnifica. (Improved Strain of Feathered Cockscomb.)

Thompsonii Magnifica is of pyramidal growth, often attaining the height of three feet, and



Celosia, Thompsonii Magnifica (Improved Strain)

producing graceful, feathery plumes of the most magnificent shades, ranging from the clearest yellow to the darkest blood-red.

Thompsonii Magnifica, Crimson. Bright crimson. Pkt. 25 cts., 1/4 oz. 75 cts.

Thompsonii Magnifica, Yellow. Beautiful yellow. Pkt. 25 cts., 1/4 oz. 75 cts.

Thompsonii Magnifica, Mixed. Pkt. 25c., 1/4 oz. 75c.

Celosia, Pride of Castle Gould

An entirely distinct type of the *Celosia pyramidalis plumosa*, and surpasses by far anything thus far placed on the market. This strain has through constant culture and careful selection and hybridization proven its superiority to anything similar ever offered.

HABIT OF PLANTS.—Pyramidal, compact growth of from 2 to 3 feet, with immense, extra-fine feathered heads, gives the plant a most striking appearance.

COLOR.—The following distinct colors are among these hybrids: Blood-red, real carmine, golden yellow, salmon, deep scarlet, dark orange and wine-red; however, by variation there will be found many more shades; the selfcoloring will be surprising.

This illustration is from a photograph taken this summer on the estate of M. C. D. Borden, Oceanic, N. J. (William Turner, Supt.). The following is a description by William Turner: "Celosia Castle Gould is admirably adapted for growing along in pots for decorative purposes or for planting out in beds, provided the beds are situated to receive full benefit from the sun's rays. Castle Gould is a decided improvement over all other Celosias, both for richness of colors and the massive plumes this variety produces. Being a free, vigorous grower, it is not necessary to sow the seed for outdoor planting until say the middle of March. They would then be nice, vigorous plants in 3- or 3 1/2-inch pots, ready for placing in the beds about the end of May. With a little care, they would be a mass of gorgeous plumes until killed down by frost." Per pkt., mixed shades, 25 cts.



CELOSIA, PRIDE OF CASTLE GOULD

CENTAUREAS

There is, perhaps, no more popular annual than the Centaurea. Will grow well anywhere and as a cut-flower is much in demand.

Cornflowers (*Centaurea Cyanus*)

SOMETIMES CALLED BACHELOR'S BUTTON, BLUE BOTTLE, RAGGED SAILOR, ETC.

This type of Centaurea is well known and no garden is complete without them. Seeds should be sown in the spring or fall. When large flowers are wanted, plants should be thinned out to a space of say 8 square inches.

Cyanus, Emperor William, Blue.	Well-known Pkt.	Oz.
favorite cut-flower.....	\$0 05	\$0 25
" Rose.....	05	25
" White.....	05	25
" Victoria. A very dwarf mixture, used for border or pots; grows 8 inches high.....	15	1 00
" Mixed Single.....	05	25

Cyanus, Double Emperor William.

A variety largely used by the commercial florist on account of its large size. Much in demand for cutting, taking fewer than the single varieties to make a bunch. 15 1 50

Cyanus, Double Mixed.....	10	40
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Giant Sweet Sultans (*Centaurea imperialis*)

This beautiful class is undoubtedly the finest of all the Sweet Sultans for cutting purposes. Beautiful, deliciously sweet-scented flowers are borne on long, strong stems and are particularly striking, lasting several days after cutting. We recommend sowing in succession every two weeks from May until July, thereby giving a continuous bloom from summer to fall.

Imperialis, White. Large and exquisitely sweet-scented.

Imperialis, Pink. Pink, with tinge in center.

Imperialis, Purple. Brilliant rosy purple.

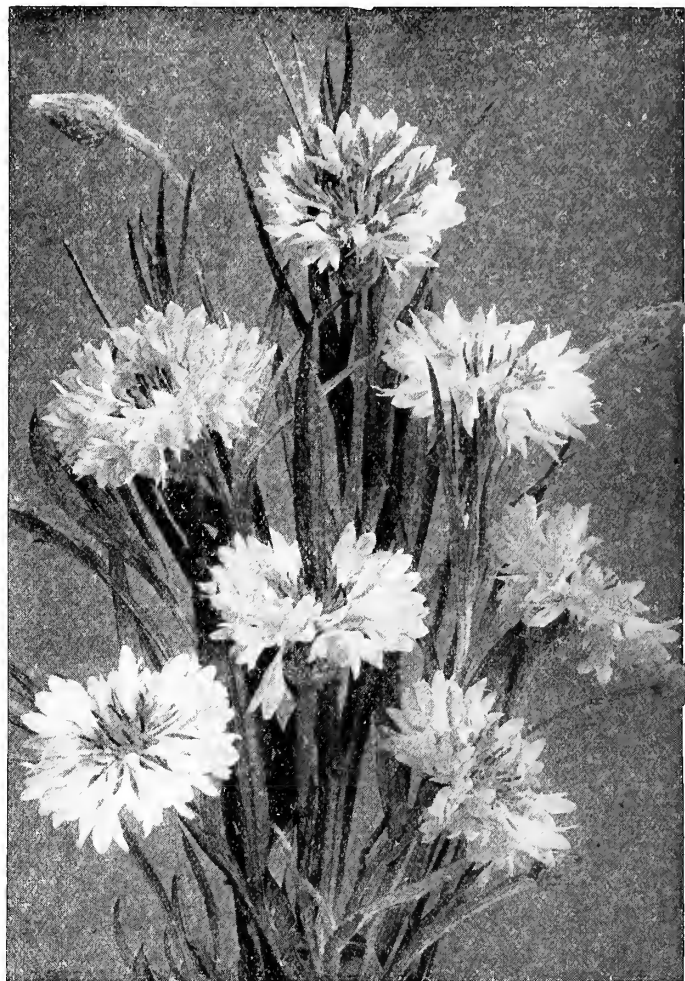
Imperialis, Lilac. Beautiful lilac.

Imperialis, Rose. Brilliant rose.

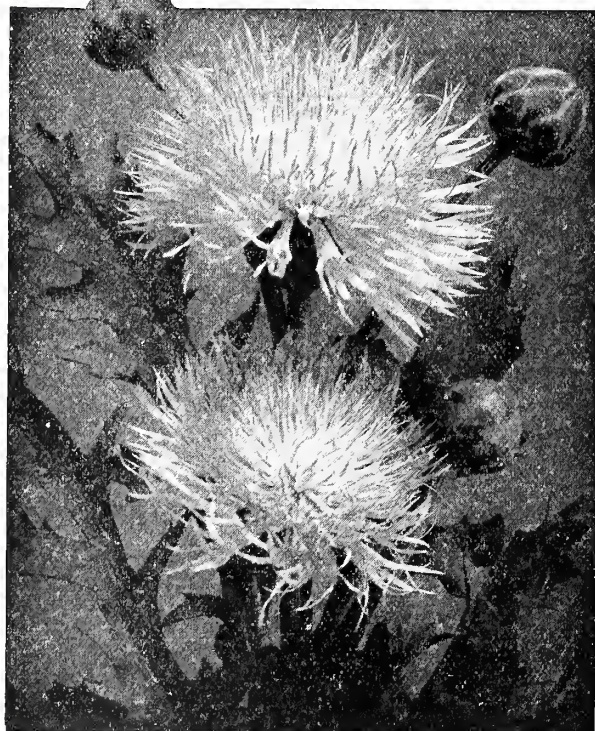
Imperialis, Mixed. A select mixture of above colors.

Pkt. of any of the above, 15 cts., 1/4oz. 50 cts.

COLLECTION: One pkt. each of the 5 colors, 50 cts.



CENTAUREA CYANUS (Cornflower)



CENTAUREA IMPERIALIS (Giant Sweet Sultan)

Four Fine Centaureas (For Greenhouse Growing)

The following four varieties are largely grown by Florists during the winter months for cut-flowers.

Suaveolens. (Yellow Sweet Sultan.) Very showy bright yellow flowers; sweetly scented.....	Pkt. \$0 05	Oz. \$0 60
Odorata. Beautiful large flowers of light blue color; deliciously scented.....	10	1 00
Odorata, Chameleon. Large flowers of pale sulphur-yellow, changing to rosy lilac.....	10	2 00
Marguerite (Giant White Cornflower). Flowers 4 inches across, purest white and very fragrant.....	10	1 00

White-leaved Centaureas (Dusty Millers)

Extensively used for edging of beds or borders of the flower garden. The glistening white contrasted with the bright color of the Coleus, Salvia or Red Canna is very striking.

Candidissima. Thick white leaves grown for their foliage only and make excellent plants for edgings. They are hardy annuals and grow rapidly. Leaves are very lanced and are silver-coated.. 1/4oz. 25 cts.. \$0 10

Gymnocarpa (Dusty Miller). Leaves fern-like and a trifle taller than Candidissima .. 1/4oz. 25 cts... 10

Various Centaureas

Moschatus coerulea (Sweet Sultan) Blue. Identical in color with Emperor William in the regular Bachelor Button type..	Pkt. \$0 05	Oz. \$0 30
Moschatus, White	05	30
" Mixed	05	25

CINERARIA

Seed should be sown from May to September where a succession is desired. When sown at this time, fine plants may be secured. The main point in the culture of Cinerarias is to secure as hardy a growth as possible with leaves of medium size. Seed may be transferred direct from seed-pans to thumb-pots. After planting, place in coldframe facing north, if possible. As pots become full of roots, shift to larger ones until flowering size is reached.

S. & W. Co.'s Giant-flow- ering Mixed.

This strain of Prize Cineraria is grown for us by a famous English seed specialist. The flowers seldom measure less than 3 inches in diameter, comprising the following colors: White, rose, flesh, crimson, blue, violet, etc. The plants are of a very robust dwarf habit, which, combined with the mass of giant blooms, makes this strain exceedingly valuable. Pkt. 50 cts.

Matador. A new, large-flowering, deep scarlet; one which adds brilliance to a collection. Pkt. 50 cts.

S. & W. Co.'s Stellata

Delicate star-like blooms are borne in great profusion on long stems, giving this variety a double use, as it is excellent for cutting as well as decorative purposes; all shades.

Tall Mixed. Pkt. 50 cts. **Dwarf Mixed.** Pkt. 50 cts.

ANNUAL CHRYSANTHEMUMS

These improved varieties form bushy, compact, oval plants about 18 inches high, are of easy cultivation, and flower most abundantly during the summer; very showy garden annuals and fine for cutting.

SINGLE-FLOWERING VARIETIES

- Beaconsfield.** White, with pink center. Pkt. 10 cts.
Chameleon. Brown, with yellow center. Pkt. 10 cts.
Evening Star. Sheeted with large single golden yellow flowers. Pkt. 10 cts.
Morning Star. Large, cream-yellow flowers; profuse. Pkt. 10 cts.
The Sultan. Deep scarlet. Pkt. 10 cts.
Mixed Single Annual Varieties (*Chrysanthemum tricolor*). Pkt. 5 cts.

DOUBLE-FLOWERING VARIETIES

- Golden Queen.** Double golden flowers. Pkt. 10 cts.
White Pearl. Double white flowers. Pkt. 10 cts.
Mixed Double Annual Varieties. Pkt. 5 cts.

CHRYSANTHEMUMS PERENNIAL

- Maximum** (Hardy White Daisy). Large flowers; perfectly hardy. 3 ft. July to October. Pkt. 10 cts., oz. 75c.
Maximum leucanthemum (Common Shasta Daisy). Pure white, very large. 3 ft. July to October. Pkt. 10 cts., 1/4oz. 50 cts.
Uliginosum (Giant Daisy). One of the best late-blooming perennials from Russia. Stout, upright plants, with pure white flowers. 5 ft. August to October. Pkt. 25 cts., 1/4oz., \$1.



S. & W. Co.'s Giant-flow-ering Cineraria

CLARKIA ELEGANS

A mighty handsome annual, which should be far more widely known. It is of easy cultivation, graceful in habit of growth, and lends itself as well to bedding as for cutting. The flowers are borne all along the stems and resemble carnations to quite an extent. 1 ft. July to October.

	Pkt.	Oz.
Single Rose.....	\$0 05	\$0 30
" White.....	05	30
" Mixed.....	05	25
Double Salmon Queen.....	10	50
" White King....	10	50
" Rose.....	10	50
" Finest Mixed...	10	40

CLEMATIS (Virgin's Bower). Beautiful ornamental plants, fine for covering trellises or making a screen. Seeds vegetate only after an interval of several months, when they will grow. Hardy perennial.

Jackmani Varieties. Seed saved from best named varieties. Pkt. 10c.

Paniculata. Small, white. Pkt. 10c.

CLERODENDRON fallax. Handsome, erect-growing greenhouse plants; large spikes of fiery scarlet bloom. Pkt. 75 cts.

CLEOME pungens (Giant Spider Flower). Singular-looking, rose-colored flowers; the stamens look like spiders' legs, and present a very attractive appearance; annual; 3 feet. This plant is now used extensively in many of the public parks, planted among shrubbery, and is very effective. Pkt. 5 cts., 1/4oz. 15 cts.

CLIANTHUS Dampieri. Greenhouse plants, with pea-shaped scarlet flowers. Seed should be soaked in water before sowing. Pkt. 25 cts.

COBÆA (Cup-and-Saucer Vine)

A climber of rapid growth, attaining a height of 30 to 50 feet during the season, valuable for covering trellises, arbors, trunks of trees, etc.; will cling to any rough surface. In sowing, place seeds *edgewise* and merely cover with light soil; to get early results, start the seed indoors in March or April; can also be sown out-of-doors in May.

Scandens. Large bell-shaped purple flowers. Pkt. 10 cts., 1/4oz. 25 cts.

Scandens alba. Pure white. Pkt. 15 cts., 1/4oz. 50 cts.

COLEUS, S. & W. Co.'s Exhibition Strain Mixed. Pkt. 20 cts.

CONVOLVULUS

(Morning-Glory)

These well-known favorites ought to be in every garden. Nothing can be finer for color than a bed of these.

Dwarf Bedding Varieties. Mixed. Pkt. 5 cts., oz. 20 cts.

Tall or Climbing Varieties. Mixed. Pkt. 5 cts., oz. 20 cts.

Giant Imperial Japanese

A magnificent advance on the old-fashioned Morning-Glories. The enormous flowers, exquisite colors and beautiful foliage make them, without doubt, the most beautiful climbers in existence.

Japanese Mixed. Pkt. 10 cts., oz. 25 cts., 1/4lb. 50 cts.



Annual Chrysanthemums

COSMOS

This is one of the most notable summer and fall flowers, the specialists' skill having added much to its beauty. Many professional gardeners sow their Cosmos late in the spring, as it has been demonstrated, particularly with the Late Mammoth-flowering Tall Cosmos, that early sowing frequently makes enormous, heavy-wooded plants which do not flower any earlier than if sown later.

We recommend the sowing of Cosmos about the first of May, outdoors in rows, covering the seed about $\frac{1}{4}$ inch, and when the plants are about 3 inches high, thin out or transplant to not less than 2 feet apart. Any garden soil will grow Cosmos to perfection; frequent cultivation around the base of the plants will greatly benefit them.

Extra-Early Flowering Dwarf Cosmos

Frequently the amateur finds that the Cosmos of the Late-flowering Tall type, selected by him for growing in borders or beds with other annual flowers, is unsuitable because of it flowering late in the summer, and also growing to the height of 6 to 8 feet. We, therefore, take pleasure in offering this new Early-flowering Dwarf Cosmos, which, if sown outdoors about the first of May, will give an abundance of cut-flowers for the table or home decoration from July until cut down by frost.

This type of Cosmos grows about 4 feet high, and while the flowers are not quite so large as the Late Mammoth-flowering type offered on this page, they are admirably adapted to the use of the suburbanite whose garden-space is small. To those who desire the larger-flowering type, which flowers late, after most other flowers are past, we recommend our Late Mammoth-flowering Tall Cosmos.

	Pkt.	$\frac{1}{4}$ oz.	Oz.
Early-flowering, White.....	\$0 10	\$0 75	\$2 50
" " Pink.....	10	75	2 50
" " Crimson.....	10	75	2 50
" " Mixed.....	10	75	2 50

Late Mammoth-Flowering Tall Cosmos

This type of Cosmos, which has been greatly improved over the old tall small-flowering varieties, flowers late in the summer—usually September in this latitude—and coming at this season of the year, when nearly everything in the garden has finished blooming, it is a very desirable addition.

These tall, graceful plants are most effective when planted in broad masses along background borders against evergreens or shrubs. The gigantic flowers, borne on long stems, and the feathery foliage lend themselves to graceful arrangements for bouquets.

	Pkt.	Oz.
Mammoth Tall, White.....	\$0 10	\$1 00
" " Pink.....	10	1 00
" " Crimson.....	10	1 00
" " Mixed.....	10	1 00
Choice Mixed.....	05	50

MAMMOTH TALL WHITE COSMOS

Lady Lenox. This is the very latest development of this popular autumn flower, bearing gigantic flowers, the petals having a wide overlapping character and of splendid substance; its beautiful, deep rosy pink color and splendid form make this Cosmos one of the most widely grown. Pkt. 10 cts., $\frac{1}{4}$ oz. 50 cts., oz. \$1.50.

Lady Lenox, White. Similar to above, but white. Pkt. 15 cts., $\frac{1}{4}$ oz. \$1, oz. \$3.

CIGAR PLANT (Cuphea). With cigar-shaped, scarlet flowers; very useful for bedding; free bloomer. Half-hardy perennial.

PLATYCENTRA. Scarlet and white. Pkt. 10 cts.

COREOPSIS. See **Calliopsis**.

CYPRESS VINE (*Ipomœa Quamoclit*). The most popular of annual climbing plants, with delicate, fern-like foliage. Half-hardy annual.

	Pkt.	Oz.		Pkt.	Oz.
Crimson.....	\$0 05	\$0 30	Rose.....	\$0 05	\$0 30
White.....	05	30	Mixed.....	05	30

DAHLIA. The seed we offer has been saved from a superb collection of the finest named varieties. Half-hardy perennial.

	Pkt.
Giant Peony-flowered, Mixed. Saved from finest blooms.....	\$0 15
Pompon, Mixed. Saved from Pompons.....	15
Cactus, Mixed. Saved from a choice collection.....	15
Twentieth Century. Saved from a choice collection of Single Century Dahlias.....	15
Double-flowering, Mixed. Saved from fine, double, Show sorts.....	15

S. & W. Co.'s Giant-flowering Cyclamen

Flowers of extraordinary size and of great substance. The leaves are proportionately large and beautifully marked. These are among the most beautiful winter- and spring-flowering plants for the window and greenhouse. Not only are the flowers of striking beauty, but the foliage is also highly ornamental. Sow seed from August to September and do not permit same to become checked. When grown cool, most satisfactory results are obtained. Our strain is selected by a well-known English Cyclamen grower.

Giant Salmon-Red	Pkt. 100 seeds	\$0 25	\$1 25
Giant Rose	25	1	25
Giant Pure White	25	1	25
Giant Dark Red	25	1	25
Giant Lilac	25	1	25
Giant Cattleya Purple	25	1	25

Giant Rose-Salmon	25	1	25
Giant Pale Rose	25	1	25
Giant White, Red Eye	25	1	25
Giant Light Red	25	1	25
Giant White, Striped	25	1	25
Violet	25	1	25
Giant Prize Mixed	25	1	25

COWSLIP. The well-known favorite English Cowslip (*Primula veris*), hardy, flowering in early spring. $\frac{3}{4}$ foot high. Mixed colors. Pkt. 5 cts.

DATURA (Trumpet Flower) Cornucopia (Horn of Plenty). A grand annual plant; the flowers average 8 inches long by 5 inches across; French white inside, purple outside; delightfully fragrant. Started early, will flower from early summer until fall. Pkt. 10 cts.



S. & W. Co.'s Giant-flowering Cyclamen

DELPHINIUM (Perennial Larkspur)

There is perhaps no better known hardy plant than the Delphinium. The beautiful flowers borne on tall stately spikes are a gorgeous sight and a charm to the garden. Sow seeds in early spring in shallow boxes indoors or in a hotbed. When seedlings are about $\frac{1}{2}$ inch high, transplant to flats 3 or 4 inches apart each way. About a week before planting out remove to the open, taking care to protect them on cold days and nights. Set out 6 inches apart in the garden. Plants treated thus usually flower first season during August. In the fall they may be lifted and set out in groups of colors; three or four plants at a distance of 3 feet apart, in the rear of hardy perennials, where they make a fitting background.

Gold Medal Hybrids. This splendid strain is of strong, vigorous habit, with immense spikes from 2 to 3 feet long, of large flowers mostly in fine shades of light blue. We doubt very much if this wonderful strain can be surpassed, and recommend all our patrons desirous of obtaining some choice plants to grow these hybrids. Pkt. 25 cts., 5 pkts. \$1.

Chinense (Blue Butterfly). A distinct and neat variety, growing about 18 inches high, with fine, feathery foliage, and producing freely spikes of large blossoms of intense gentian-blue. Pkt. 10 10 00

Album. The white-flowered form of the preceding. 10 75

Barlowii. Very large dark blue flowers, extra-fine. 25 2 00

Belladonna (Everblooming Hardy Larkspur). This is one of the finest and most continuous-blooming hardy Larkspur. The clear turquoise-blue of its flowers is not equaled for delicacy and beauty. 5 pkts. \$1. 25

Cardinale. A very beautiful cardinal-scarlet; plants grow about 18 inches high. 25 2 00

Formosum. Large; rich dark blue, white center; borne on spikes 2 to 3 feet tall; one of the most popular varieties. 10 1 00

Formosum caelestinum. Beautiful sky-blue, white center; similar in habit to the above. 20 1 50

Hybridum fl. pl. A grand mixture of double varieties, taking in a great range of colors. 15 1 50

Nudicaule. Dwarf compact growth, with spikes of bright scarlet flowers. 18 in. 25

DOLICHOS (Hyacinth Bean)

A rapid-growing annual climber, flowering freely in erect racemes, followed by ornamental seed-pods; for covering arbors, trellises, etc. Sow the seed in the garden in beds where they are to remain. 10 feet.

"Daylight." This grand Hyacinth Bean comes from Japan. In our trial-grounds Pkt. Oz. seed sown late in May it had, by the middle of July, attained a height of over 10 feet, and was covered with spikes of snow-white pea-shaped blossoms from then until late fall. The heart-shaped foliage is bright green, and not affected by insect pests. \$0 10 \$0 50

"Darkness." Identical in every way with the above, except in color, which is a rich purple-violet. 10 50

Lablab, Mixed. 05 25



DELPHINIUM

DIANTHUS, or PINKS

The family of Pinks is unrivaled for brilliancy and rich variety of color; the plants are bushy, of symmetrical form—blooming profusely until fall, rendering them most satisfactory for summer flower gardens. Sow out-of-doors when danger of frost has passed and they will, in several weeks become a mass of bloom, continuing until frost.

DOUBLE ANNUAL VARIETIES

Chinensis fl. pl. (China, or Indian Pink). Blooms in Pkt. 1/4oz. clusters, flowers very double and bloom in a large range of bright colors.....	\$0 05	\$0 25
Diadematis fl. pl. (Double Diadem Pink). Beautiful double flowers; mixed of various tints of lilac, crimson, purple; outer edges fringed.....	Oz. \$1 10	35
Heddewigii fl. pl. (Double Japan Pink). Double mixed, color varying from richest crimson to most delicate rose.....	Oz. 75 cts...	10 25
Fireball. New. Extra double brilliant dark scarlet, very beautiful.....	15	1 00
Snowball. Large double white; excellent for border or cutting.....	10	50
Salmon King. Brilliant salmon-rose.....	10	50
Lucifer. Brilliant orange-scarlet, flowers measuring about 2 inches across; very dazzling and popular variety; nicely fringed.....	15	1 00
Laciniatus fl. pl. (Double Fringed Pink). Large double flowers, edges fringed; in a great variety of colors.....	10	50

SINGLE ANNUAL VARIETIES

These single sorts contain many beautiful varieties, flowers often measuring 2 to 3 inches in diameter, and are very effective for borders or beds.

Crimson Belle. Rich crimson. 1 foot.....	Pkt. \$0 10	1/4oz. \$0 50
Queen of Holland. Beautiful white.....	10	75
Eastern Queen. Delicately marbled rose and mauve flowers.....	10	50
Salmon Queen. Beautiful fringed flowers of brilliant salmon color changing to old rose when fading.....	10	50
Vesuvius. Beautiful orange-scarlet flowers, very striking in beds or borders.....	10	50
Laciniatus (Single Fringed Pink). Flowers fringed in a great variety of colors.....	10	35

HARDY GARDEN PINKS

These form low, bushy, tufted plants, above which are produced on long stems the beautiful fringed and fragrant flowers so valued in "old-fashioned" gardens. For permanent beds and borders these Pinks are unrivaled.

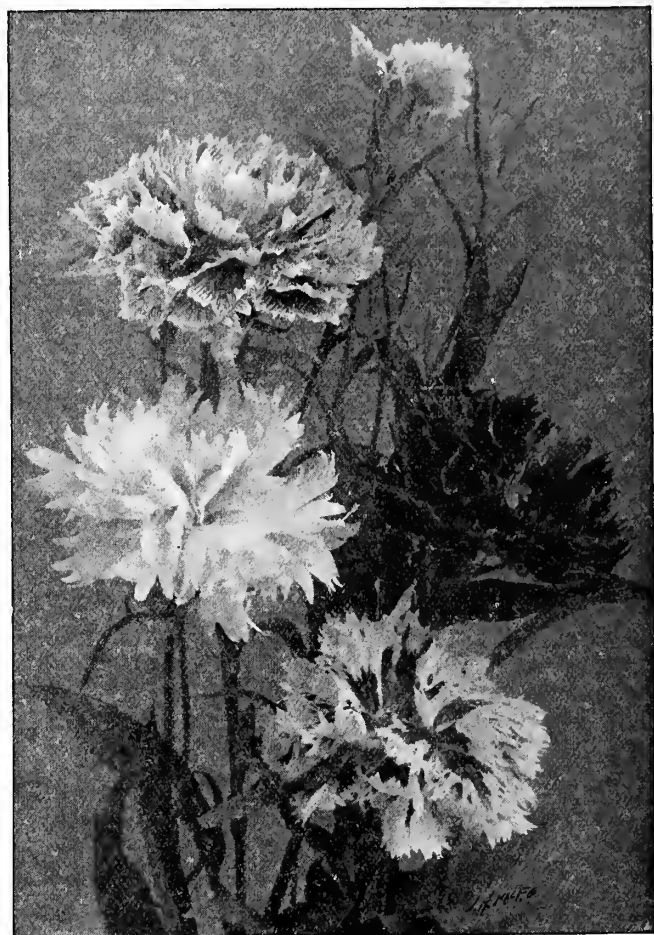
Barbatus (Sweet William). See page 71.	Pkt.
Latifolius atrococcineus fl. pl. Hardy perennial. A hybrid between the China Pink and Sweet William. The heads of brilliant red flowers are quite double. Will flower first season from seed.....	\$0 25
Plumarius, Double Mixed. Double fringed, fragrant flowers of white, crimson or purple shades, spotted and variegated. 12 inches high.....	10
Plumarius, Single Mixed. Large, single fragrant flowers of beautiful colors and finely fringed.....	05
Scotch, or Florists' Pinks. They are excellent perennial garden plants, about 1 foot high when in bloom; they are vigorous, very hardy, and flower profusely during spring and early summer; the flowers are very large, very double, beautifully fringed, and emit a grateful clover-like perfume. Mixed colors.....	25

S. & W. Co.'s Special Mixture of Annual Sorts.

A grand collection of these ever-popular garden, or China Pinks. All large-flowering varieties, unrivaled for brilliancy and rich variety of color, and bloom in perfect succession during the whole summer and autumn in such numbers as fairly to crowd each other for room. Mixed colors. Pkt. 10 cts., oz. \$1.

COLLECTION ANNUAL SORTS

Ten choice Dianthus, five named double and five named single, packet each, for 75 cts.



DOUBLE ANNUAL PINKS

DIGITALIS (Foxglove)

HARDY PERENNIALS

Invaluable for the hardy border and particularly handsome when seen growing among shrubbery.

	Pkt.	Oz.
Gloxiniaeflora alba. White.....	\$0 05	\$0 40
" Lilacina. Lilac.....	05	40
" purpurea. Purple.....	05	40
" rosea. Rose.....	05	40
" lutea. Yellow.....	05	40
" Finest Mixed	05	40

Purpurea—

Alba. White.....	10	75
Rubra. Red.....	10	75
Rosea. Pink.....	10	75
Mixed	10	75
Monstrosa, mixed	10	1 25

DRACAENA. Ornamental greenhouse plants, with elegant leaves; rich and desirable.

Indivisa lineata. Pkt. 10 cts.

ESCHSCHOLTZIA

(California Poppy)

Profuse blooming annuals, for beds, edging or masses. Bloom from early summer until frost. Should be grown in every garden.

Californica. Giant yellow. Pkt. 5 cts., oz. 35 cts.

Alba. Creamy white. Pkt. 5 cts., oz. 35 cts.

Carminia. Carmine. Pkt. 10 cts., oz. 75 cts.

Golden West. Deep yellow. Pkt. 10 cts., oz. 50 cts.

Rose Queen. Deep pink. Pkt. 10 cts., oz. 50 cts.

Mandarin. Inner side of petals rich orange, the outer side brilliant scarlet. Pkt. 10 cts., oz. 40 cts.

Crocea. Double; orange; very attractive. Pkt. 5 cts., oz. 35 cts.

Carmine King. Beautiful carmine-rose on both sides of petals, making a distinct and novel variety. Pkt. 10 cts., 1/4 oz. 50 cts.

Dainty Queen. Beautiful new shade of Eschscholtzia; pale coral-pink, slightly deeper toward the edges. Pkt. 10c., 1/4 oz. 75 cts.

Echinocystis

Lobata (Wild Cucumber Vine). One of the quickest-growing annual vines we know of; splendid for covering trellises, old trees, fences, etc. Clean, bright green foliage and sprays of white flowers during July and August. Pkt. 5 cts., oz. 30 cts.

ECHINOPS Ruthenicus (Globe Thistle). Striking hardy perennial plants, with handsome, silvery, thistle-like foliage and fine steel-blue flowers in round heads, which can be used for cutting. Excellent for the back of the hardy border among other tall plants. 3 to 5 feet. Pkt. 10 cts.

EUPATORIUM ageratoides (Thoroughwort). Hardy perennial. 4 feet. White. August and September. Pkt. 10 cts.

Cœlestinum. Blue. September. Pkt. 10 cts.

EUPHORBIA heterophylla (Mexican Fire Plant). A handsome, annual, garden foliage plant. Leaves large and glossy green, often tipped with orange-scarlet. Pkt. 10 cts.

Variegata (Snow-on-the-Mountain). Attractive foliage veined and margined green and white. Pkt. 5 cts., oz. 30 cts.

ERYNGIUM amethystinum (Sea Holly). Handsome, ornamental hardy plants, growing 2 to 3 feet high, with finely cut, spiny foliage and beautiful, thistle-like heads of amethystine blue; fine for winter bouquets. Pkt. 15 cts.

FEVERFEW. See *Matricaria*.

FUCHSIA. Choice double and single of this well-known, elegant tender pot-plant. Mixed colors. Pkt. 25 cts.



ESCHSCHOLTZIA, or CALIFORNIA POPPY



FORGET-ME-NOT (MYOSOTIS)

Forget-me-not

(Myosotis)

All the varieties of these popular plants are very beautiful and general favorites with all; they succeed best in a moist situation. Half-hardy perennial. 1 1/2 feet.

Alpestris. A pretty trailer with blue flowers. Pkt. 5 cts., oz. 60 cts.

Alpestris, Eliza Fonrobert. Sky-blue. Pkt. 10 cts., oz. \$1.

Alpestris, Victoria. Dwarf habit; sky-blue. Pkt. 25 cts., oz. \$1.50.

Oblongata perfecta. Flowers borne in long spikes; very suitable for winter blooming. Pkt. 10 cts., oz. \$1.25.

Palustris (True Forget-me-not). Pkt. 10 cts., oz. \$3.

Palustris semperflorens. Continuous bloomer. Pkt. 10 cts., oz. \$2.50.

Finest Mixed. Pkt. 5 cts.

Ruth Fischer. The latest and said to be the finest and largest-flowered Forget-me-not yet sent out, producing flowers up to 1/2 inch in diameter, of true Forget-me-not-blue; plants of strong, vigorous growth, of exceptional value for pot culture and spring bedding. Pkt. 25 cts.

FOUR O'CLOCK

(Mirabilis)

Well-known, free-flowering plants. Called Four o'Clocks because they open their blossoms at that hour in the afternoon; also called Marvel of Peru. Hardy annuals. 2 feet.

Fine Mixed. All colors. Pkt. 5 cts., oz. 20 cts.

GAURA Lindheimeri. Half-hardy perennial. Flowers the first season from seed, and produces long sprays of white, red-tinted flowers. It is most useful for vases, the slender-stemmed blossoms fluttering like butterflies. 2 ft. Pkt. 5 cts., oz. 40 cts.

GEUM atrosanguineum fl.-pl. Beautiful hardy perennial, bearing profusely large, showy, double, dark crimson flowers all through the summer; an elegant flower for bouquets. Pkt. 10c.

GLOXINIA

(Large-flowered, Striped and Marbled)

These very remarkable Gloxinias have, by careful selection, now been so far fixed that 40 per cent of the seedlings come true. The ground-color of the large, erect and widely opened flowers is a velvety purple-crimson, with a rosy white throat. On the often seven-lobed corolla appear more or less sharply defined bands, spots and stripes, characteristic of this new class, the latter mostly of a violet hue. Pkt. 50 cts.

GNAPHALIUM leontopodium (Edelweiss). Seed should be sown early and kept cool and moist. Pkt. 25 cts.

GLOBE AMARANTH (Gomphrena). See *Everlasting Flowers*, page 73.

GAILLARDIA

(Blanket Flower)

Brilliant, showy annuals and perennials, used very extensively for beds, borders and cutting purposes. The flowers are daisy-like and are borne on long, stiff stems.

ANNUAL VARIETIES

- Amblyodon.** Rich blood-red. 2 ft. Pkt. 5 cts., oz. 40 cts.
Aurea. Rich yellow. 2 feet. Pkt. 10c.
Picta Lorenziana. Double; mixed. 2 feet. Pkt. 5 cts., oz. 40 cts.
Rubra. Rich red; double. 2 feet. Pkt. 5 cts., oz. 40 cts.

PERENNIAL VARIETIES

- Kermesina splendens.** Center rich crimson, narrow canary-yellow border. Pkt. 15 cts.
Grandiflora maxima. Pkt. 10 cts.
Sulphurea oculata. Pale sulphur, bright maroon eye. Pkt. 15 cts.

S. & W. Co.'s Hybrids.

This strain of Hybrid Gaillardia has been obtained from a specialist who has developed a splendid type, covering only the best varieties; the flowers are as large as sunflowers. Pkt. 25 cts., 5 pkts. \$1.



GAILLARDIA LORENZIANA

GODETIA

Profuse-blooming annuals of beautiful colors; fine for bedding or pot culture. Hardy annuals. 1 foot. Pkt.

- Lady Satin Rose.** Brilliant carmine; extra fine. \$0 05
Duchess of Albany. Satiny white. 05
Princess of Wales. Beautiful pink. 05
Sunset. Dwarf; compact; most dazzling rosy crimson. 10
Carter's Double Pink. Beautiful pot-plant for conservatory decoration. Height 2 ft. Pkt. 15c.
Finest Semi-Dwarf Mixed. Pkt. 10 cts.

GOURDS

A vigorous class of plants, with curiously formed and often strangely colored fruits. The foliage is abundant and often curious. Pkt.

- Mock Orange.** \$0 05
Apple-shaped. 05
Dish-Cloth, or Chinese Luffa 05
Dipper. 05
Hercules' Club. 05
Mixed. All sorts. 05

GREVILLEA robusta (Silk Oak). Very graceful foliage; highly valued as a decorative plant for the table, and when large, for tropical effects. 3 to 5 feet. Pkt. 10 cts.

HELENIUM

(Sneezewort)

Hardy perennial; blooms in late summer; useful in the hardy border; very free-blooming.

- Autumnale.** 6 feet. Yellow. Pkt. 10 cts., 1/4 oz. 50 cts.
Bigelowii. 5 feet. Golden yellow, black center. Pkt. 25 cts.
Hoopesii. 2 1/2 feet. Dark yellow. Pkt. 25 cts.

GYPSOPHILA

(Baby's Breath)

Pretty, free-flowering, elegant plants, succeeding in any garden soil. Their misty white panicles of bloom are largely used for mixing with other cut-flowers.

Elegans grandiflora alba. This is an improved, large-flowering, pure white form of the annual Baby's Breath; of free, easy growth, and grown by the acre in the suburbs of Paris and London for use with other cut-flowers. Several sowings should be made during the season to keep up a supply. Pkt. 5 cts., oz. 50 cts.

Elegans grandiflora rosea. Delicate rose. Pkt. 5 cts., oz. 50 cts.

Muralis. An annual sort which forms mounds of green 8 to 10 inches high, thickly studded with little pink flowers from early in the season till frost; fine for edging. Pkt. 5 cts., oz. 50 cts.

Paniculata. White flowers; fine for bouquets; one of the favorite hardy perennials; blooms first year if sown early. 2 feet. Pkt. 5 cts., oz. 50 cts.

Paniculata fl. pl. The new double-flowering Baby's Breath, and one of the finest hardy plants for cutting. Pkt. 20 cts., 3 pkts. 50 cts.

Acutifolia. A strong-growing hardy perennial sort, 3 to 4 feet high, with large panicles of small white flowers in July. Pkt. 5 cts., oz. 50 cts.

Repens. Dwarf; white. A hardy perennial sort for rockwork. Pkt. 5 cts., oz. 50 cts.

HELIANTHUS (Sunflower)

Much-prized annuals and perennials for cutting; the tall sorts are largely used in the perennial border; the dwarf sorts make good edging to the tall.

SINGLE ANNUAL SUNFLOWERS

The single sorts of Sunflowers are indispensable for cutting. Sown in a sunny location in April or early May, they come to bloom early in the summer and flower continuously until cut down by frost.

Cut-and-Come-Again, Mixed. A mixture of the tall-growing, large-flowering types for cutting. Pkt. 10 cts., oz. \$1.

Cucumerifolius (Miniature Sunflower). Small, single, rich yellow flowers; an abundant bloomer. 4 feet. Pkt. 5 cts., oz. 50 cts.

Cucumerifolius, Stella. Different from the above by its larger and better-formed flowers of purest golden yellow with black center. Pkt. 10 cts., oz. 75 cts.

Cucumerifolius, Orion. A new variety of the Stella. The petals are twisted like a cactus dahlia. Pkt. 10 cts., oz. 75 cts.

Cucumerifolius, Perkeo. A charming dwarf variety of the Miniature Sunflower. The plants form compact bushes about 12 inches high by 14 inches through. There are many positions, such as the front of borders or beds of plants of medium height, where this can be used to good advantage, flowering as it does from the end of June until cut down by hard frost. Pkt. 10 cts., oz. \$1.



GYPSOPHILA ELEGANS GRANDIFLORA. WHITE

Double Annual Sunflowers

Cucumerifolius fl. pl. The double-flowering form of the popular Miniature Sunflower. The flowers, while double, are quite free and graceful; of a bright golden yellow. Pkt. 10 cts., oz. \$1.50.

Dwarf Double (Globe of Gold). Dwarf; double; yellow. 4 feet. Pkt. 5 cts., oz. 25 cts.

Globosus fistulosus (Globe or Dahlia Sunflower). Flowers large, double and of a rich saffron. 6 feet. Pkt. 5 cts., oz. 25 cts.

Gigantic Russian. The large-flowering Russian variety. Pkt. 5 cts., oz. 10 cts., 1/4 lb. 25 cts., 1/2 lb. 40 cts., lb. 75 cts.

HARDY SUNFLOWERS

Missouricus. Fine; double; yellow. Pkt. 10 cts., oz. \$1.

Rigidus. Heavy, stiff stems; clear yellow flowers. Pkt. 25 cts.

Perennial Sorts, Mixed. A mixture of the best perennial varieties, carefully selected. Pkt. 10 cts.

HELICHRYSUM (Straw Flower). See **Everlastings**, page 73.

Heliopsis

Pitcheriana (Orange Sunflower). Hardy perennial. A valuable plant for the border, thriving in any good soil. Flowers cup-shaped, deep yellow, on long, stiff stems for cutting. 3 to 4 feet. June to October. Pkt. 10 cts., oz. 75 cts.

HELIOTROPE

A half-hardy perennial, flowering during the whole season; its delightful perfume makes it a most desirable bouquet flower; a splendid bedding plant, or can be trained as a greenhouse climber. Seed started indoors in the spring will make fine plants for summer blooming. Can also be sown outdoors in May.

Lemoine's Giant. Of robust growth and produces heads of flowers double the size of the old sorts; mixed colors. Pkt. 10 cts., 1/2 oz. 50 cts.

Queen Marguerite. Large; dark blue. Pkt. 15 cts., 1/2 oz. 75 cts.

White Lady. Largest white. Pkt. 10 cts., 1/2 oz. 50 cts.

Mixed. All colors of the regular type. Pkt. 5 cts., 1/2 oz. 25 cts.

Do not fail to grow the King Asters listed on page 2 of our Catalogue. For refinement of petalage and profuseness of bloom they are Kings.



SUNFLOWERS

In all our stocks of Flower Seeds great care is exercised to have everything of absolutely first-class quality.

Heuchera

Sanguinea (Alum Root). Beautiful hardy perennial. The foliage is evergreen; flowers fiery coral-red shading to brilliant crimson. Pkt. 25 cts., 1/2 oz. 75 cts.

Splendens. Deep red. Pkt. 25 cts., 1/2 oz. 75 cts.

HIBISCUS (Marshmallow)

Showy, ornamental plants, for mixed beds or shrubbery borders. Hardy perennial, but will bloom first year from seed if sown early.

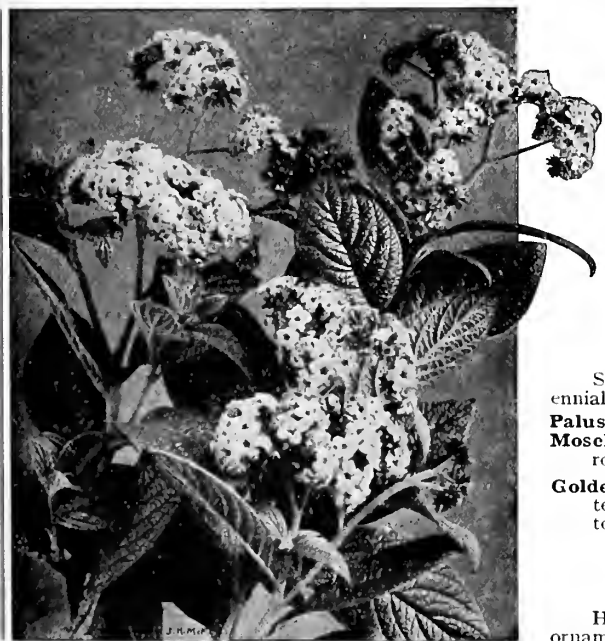
Palustris. Large pink flowers Pkt. \$0 05

Moscheutos (Swamp Rose Mallow). Flowers 6 inches in diameter; of light rosy red, with dark center 05

Golden Bowl. Giant yellow, cup-shaped flowers, from 6 to 9 inches in diameter; of rich cream, with velvety maroon center. The plants commence to bloom early and continue until cut down by frost. 10

Honesty (Moonwort)

Hardy biennial, admired for its silvery seed-pouches, which are used for house ornaments; beautiful and curious purple flowers. Sow seed in open in May and protect over winter. 2 feet. Pkt. 5 cts., 1/4 oz. 15 cts.



HELIOTROPE, LEMOINE'S GIANT



CHATER'S SUPERB DOUBLE HOLLYHOCKS

producing grateful shade and being very ornamental. Heat, drought and insects do not trouble it.

Japonicus	Pkt. \$0 05	1/2 oz. \$0 20	1/2 oz. \$0 30	Oz. \$0 50
Variegatus . Variegated variety.....	10	50	75	1 25

HUNNEMANNIA

(Giant Yellow Tulip Poppy, or Bush Eschscholtzia)

Fumariaefolia. This is by far the best of the Poppy family for cutting, remaining in good condition for several days. Seed sown early in May will, by the middle of July, produce plants covered with their large, buttercup-yellow, Poppy-like blossoms, and never out of flower until hard frost. The plants grow about 2 feet high, are quite bushy, with beautiful, feathery, glaucous foliage. Pkt. 10 cts., 1/2 oz. 60 cts., oz. \$1.

HYACINTH BEAN. See **Dolichos**.

IBERIS (Hardy Candytuft). See **Candytuft**.

ICE PLANT (*Mesembryanthemum*). Very singular, dwarf, trailing plants, much used for garnishing; beautiful and curious. Tender annual. 1 foot.

Crystallinum. White. Pkt. 5 cts.

IMPATIENS

Sultani. One of the most beautiful of decorative plants. It thrives in stove heat, greenhouse and in open border during the summer. The flowers are of a brilliant rosy scarlet, 1 1/2 inches in diameter. Mixed. Pkt. 10 cts.

Impatiens Holstii. A very handsome plant from East Africa, forming bushes 1 1/2 to 2 feet in height, with brilliant scarlet flowers, which measure from 1 1/4 to 1 1/2 inches across. It is an elegant pot-plant, also valuable for bedding out in partial shade. Pkt. 25 cts.

INCARVILLEA Delavayi. Hardy perennial. Rather new, originated in northern China, and is one of the prettiest perennials known. It produces divided pale green leaves about 2 feet in length, much like acanthus. The flowers are borne on long, stout stems, tube-shaped, and appear almost like gloxinias. Color bright rose. 2 1/2 feet. June to August. Pkt. 50 cts.

HOLLYHOCKS

One of the most popular of hardy garden plants. The beautiful color effects produced by the planting of these flowers, combined with their dignified and stately appearance, render them indispensable for either the old-fashioned garden or the well-planned herbaceous border. As a background for other flowers or planting among shrubbery, they are without an equal. As the plants are affected with rust occasionally, we recommend frequent spraying in springtime with bordeaux mixture.

CHATER'S SUPERB DOUBLE

By special arrangement, we have secured seed from a grower in England who has, at great expense and effort, grown seed of the famous Chater's Hollyhock on the ground where the **Original strain** was first grown, and we can offer the true strain in the following colors:

Cerise	Crimson	Flesh-color
Lilac	Pink	Primrose
Scarlet	White	Yellow
Mixed		

Pkt. of any of the above colors, 25 cts., 5 pkts. \$1

CHATER'S SUPERB SINGLE

Many prefer the single-flowering Hollyhocks, and we have arranged to procure the same well-known strain in the following single varieties:

Pink	Purple	Primrose
Scarlet	White	Yellow
Mixed		

Pkt. of any of the above colors, 25 cts., 5 pkts. \$1

S. & W. Co.'s Superb Double. This is a selected strain from another grower, which we can offer in a mixture only. The selection has been made, however, with great care. Mixed, pkt. 10 cts., 1/4 oz. 50 cts.

S. & W. Co.'s New Annual Everblooming Hollyhocks

This is one of the best introductions of late years. Seeds sown in the house in March will produce flowers in July on plants 4 feet high. The plants do not attain their perfection until their second year, when they grow 7 to 10 feet high and flower continuously from June till frost. The foliage is distinct and not subject to any disease. The plants are perfectly hardy and will live longer than the old-fashioned kind.

Single Mixed	Pkt. \$0 15
Double Mixed	25

HUMULUS (Japan Hop)

Rapid summer climber, in three or four weeks' time attaining a height of 20 to 30 feet, resembling the common Hop, but, being an annual, attains full perfection the first season. The foliage is luxuriant, making a dense covering. It is one of the best plants for covering verandas, trellises, etc.,



HUMULUS (JAPAN HOP)

IPOMCEA

Climbers of rapid growth, with beautiful and varied flowers. For covering walls, trellises, arbors or stumps of trees they are invaluable. It is well to soak the seed in warm water over night to assist in germination.

Bona Nox (Evening-Glory). Rosy lilac flowers, expanded in the evening; of very rapid growth.....	Pkt. \$0 10	Oz. \$0 75
Grandiflora Mexicana alba (Moonflower). At night and during dull days the plants are covered with an abundance of large, pure white, fragrant flowers, 5 to 6 inches in diameter. It grows rapidly and will cover a large surface.....	10	75
Hederacea grandiflora superba . Sky-blue, margined white.....	10	75
Hederacea grandiflora superba alba . White.....	10	75
Leari . Dark blue.....	10	50
Setosa (Brazilian Morning-Glory). Flowers of pleasing rose-color, borne very freely, in large clusters, from August to frost. As a quick-growing vine it has no equal, covering an enormous space in a short time...	05	40

For other varieties of Ipomœas, see Cypress Vine and Convolvulus.

Kochia

(Summer Cypress, or Mexican Firebush)

Trichophylla. A pretty half-hardy annual, 2 to 3 feet in height, which grows into a perfect pyramidal-shaped cypress bush, with small feathery light green foliage, deepening as the season advances until it becomes a lovely crimson hue about September. Excellent for edging or hedging. Pkt. 15c., 1/4oz. \$1.

KENILWORTH IVY (*Linaria Cymbalaria*). Perennial. Violet flowers; of trailing habit. Pkt. 5 cts.

KUDZU VINE. See *Pueraria*.

LANTANA. Rapid-growing plants, forming small bushy shrubs; exceedingly free in bloom. Mixed. Pkt. 5c.

LA VENTURA (Sweet Lavender). Pkt. 10 cts., oz. 50 cts.

LA VATERA splendens rosea (Pink Mallow). A very pretty hardy annual of exceptional value. Plants are well formed and grow about 3 feet high; the flowers being large and exceptionally valuable for cutting, as they last quite long. Do well also in large beds or borders and are extremely showy. Pkt. 5 cts., oz. 50c.

Arborea variegata. Leaves mottled with yellow; very decorative. Pkt. 5 cts., oz. 25 cts.

Trimestris. Red. Pkt. 5 cts., oz. 50c.

LINUM (Flax)—
Grandiflorum rubrum (Verum). Hardy annual; very large-flowered. Pkt. 5 cts., oz. 25 cts.

Lewisii. Blue. Pkt. 10 cts., oz. 35 cts.

Perenne (Perennial Flax). Blue. August-flowering. Pkt. 5c., oz. 25c.

Luteum. Bright yellow. Pkt. 10 cts., oz. 35 cts.

LATHYRUS latifolius (Hardy Everlasting Pea). Hardy climbers, growing 6 to 8 feet high when trained on a trellis; the flowers are borne in large clusters. They are peculiarly adapted to rough places, to scramble over rocks and bushes; splendid cut-flower.

White. Pkt. 10 cts.

Delicata. Rosy flesh-color. Pkt. 10c.

Red. Pkt. 5 cts.

Mixed Colors. Pkt. 5 cts,

ANNUAL LARKSPURS

These are among the best-known garden flowers, and in recent years a vast improvement has been effected by careful selection in size and color of the blossoms and the general habit of the plant. Seeds sown in the open ground before the close of April will produce flowering plants by the beginning of July, and give a continuous succession of flowers from then until frost, a record that is not surpassed by any other annual. They make handsome beds or lines, and their free, graceful habit and bright colors are very effective when interspersed in the old-fashioned flower or shrubbery border. They stand well when cut, and a vase of one or mixed colors is indeed charming.

DOUBLE STOCK-FLOWERED

This is the finest variety of this very popular annual, with beautiful double flowers Height 2½ to 3 feet.

Snowstorm. Pure white.

Stella. Sky-blue.

Loveliness. Shell-pink.

Attraction. Bright rose.

King of the Blues. Dark blue.

Violet Queen. Violet.

Lilac Perfection. Lilac.

Tricolor. Variegated.

Pkt. 10 cts., 1/2oz. 35 cts., oz. 60 cts.

COLLECTION:

One pkt. each of 8 varieties, 50 cts.

Defiance. A decided improvement over the Newport Scarlet

This Larkspur is of the same habit as our Double Stock-flowered; the plants, however, are a trifle taller in growth. Pkt. 25 cts., oz. \$1.50.

Tall Stock-flowered, Mixed. A select mixture of our famous Stock-flowered strain. Pkt. 5 cts., oz. 50 cts.

Dwarf Stock-flowered, Mixed. Finest double flowers. Mixed. 1½ to 2 feet Pkt. 5 cts., oz. 50 cts.

S. & W. Co.'s Emperor

This grand type of Annual Larkspurs grows about 2 feet high and is of candleabra habit. When planted in borders of the flower-garden the plants will prove most effective.

Apple-Blossom	White, Striped
Brilliant Rose	Dark Red
Black-Blue	Rose
Azure-Blue	Tricolor
Violet	Light Blue

Each of above, pkt. 5 cts., oz. 25 cts.
Collection of the 10 varieties, 40c.

Lychnis

Chalcedonica. Usually grown as annuals; of dwarf bushy habit, bearing flowers an inch or more across in continuous succession until frost; the color is a particularly pleasing and effective rich scarlet. The plants grow about 2 feet high. Pkt. Oz.

2 ft. \$0 10 \$0 50

Lagascæ. Rose; dwarfest;

early; charming for pots. 25

Haageana. Fiery scarlet. 10 50

Sieboldii. White. 10 30

Viscaria rosea 10 40

Viscaria splendens 10 40

Giant Double-Flowering Zinnia

(See page 72)

A splendid companion to our Giant Orange and Lemon Marigolds offered on page 59



LARKSPUR, DOUBLE STOCK-FLOWERED

LOBELIA

COMPACTA VARIETIES

Little, round, compact plants. 4 to 6 inches high, forming little mounds of bloom, splendid for edging, beds and ribbon-gardening and fine for pots.

	Pkt.	1/4 oz.
Emperor William. Light blue; compact; very fine...	\$0 10	\$1 00
Pumila splendens. Dark blue, with clear white eye...	10	1 50
Pumila alba. Pure white...	10	1 50
Pumila. Magenta-red, with white eye; distinct and fine	10	1 50
Crystal Palace compacta. Dark blue; a popular bedder...	10	2 00

ERINUS VARIETIES

They produce trailing branches, 6 to 9 inches long. Indispensable for hanging over vases and baskets, or for garden beds, bearing continuously flowers of charming blue, white or rose shades.

	Pkt.	1/4 oz.
Speciosa. Dark blue; dark foliage; extra fine...	\$0 05	\$1 00
Barnard's Perpetual. Deep blue, with white eye...	10	1 00
Lindleyana. Rose...	10	75
Prima Donna. Velvety maroon...	10	75
Alba. Pure white...	10	50

HARDY VARIETIES

Tall-growing, hardy perennials with long spikes of brilliant flowers; for permanent beds and borders they are unrivaled. They are one of the few flowering plants that thrive in shady situations. 2 to 4 feet. The most brilliant plants in cultivation.

Cardinalis (Cardinal Flower). Long spikes of intense scarlet flowers. Pkt. 1/4 oz. \$0 25 \$1 50

Cardinalis Lugdunensis. Rose. Pkt. 50 cts.

Queen Victoria. Brilliant scarlet. Pkt. 50 cts.

MALVA Alcea (Hollyhock Mallow). Pink. Pkt. 5 cts., oz. 50 cts.

Moschata. Pkt. 10 cts., oz. \$1.

Moschata fl. alba. Pkt. 10 cts., oz. \$1.

MATTHIOLA bicornis (Evening-scented Stock). This old-fashioned annual has no beauty to recommend it, the flowers being a dull purplish lilac, but it is well worth growing for the entrancing fragrance which it emits during the evening. 1 ft. Pkt. 5c., 1/4 oz. 15c.

MATRICARIA

Grandiflora fl. pl. eximia (Feverfew). Double, pure white flowers are borne on slender stems 15 inches high, which are excellent for cutting. Half-hardy perennial, which should be treated as an annual. Pkt. 10 cts., oz. 75 cts.

Golden Ball. Compact-growing variety with golden yellow flowers. Excellent for bedding. 1 foot. Pkt. 25 cts., oz. \$2.50.

MUSK PLANT. See **Mimulus**.

MYOSOTIS. See **Forget-me-not**.

MAURANDIA, Finest Mixed. Elegant greenhouse perennial climbers, producing the first season innumerable tube-shaped flowers. Excellent for hanging-baskets and vases. July to October. Pkt. 10 cts., 1/4 oz. 75 cts.

Albiflora. White. Pkt. 25 cts., 1/4 oz. \$1.

Barclayana. Purple. Pkt. 10 cts., 1/4 oz. \$1.

MESEMBRYANTHEMUM crystal-linum. See **Ice Plant**.

MONARDA didyma (Bee Balm). July to September. Crimson. Pkt. 25 cts.

LUPINUS (Lupine)

This is a very interesting class of plants and of easy culture, producing beautiful leaves and pea-shaped flowers, and should be more generally cultivated. The following annual varieties may be sown out in the open in May and as plants grow thin out, leaving about 12 inches between the plants.

ANNUAL VARIETIES

Rich Blue	Sky-Blue	White	Rose
Pkt. of any of the above varieties, 5 cts., oz. 30 cts.			

S. & W. Co.'s Finest Mixture. A splendid mixture of the Annual Lupines for cutting. Pkt. 5 cts., oz. 25 cts.

PERENNIAL VARIETIES

	Pkt.	Oz.
Polyphyllus, White.	\$0 10	\$0 50
Blue.	10	50
Mixed.	10	40

Lupinus polyphyllus roseus. The plants of this beautiful half-hardy perennial are of robust, branching habit. An excellent subject for the herbaceous border; flowers being produced in long spikes of soft rose-pink. Pkt. 10 cts., 1/4 oz. 25 cts., oz. 75 cts.

Lupinus polyphyllus, Excelsior. This fine strain of perennial Lupines will be found a grand addition to the hardy perennial section, embracing, as it does, a splendid assortment of colors, ranging from very pale to deep rose, and various shades of lavender, mauve and blues. A really fine mixture. Pkt. 15 cts., 2 pkts. 25 cts.

MOONFLOWER. See **Ipomoea**.

MORNING-GLORY. See **Convolvulus**.

MUSA Ensate (Abyssinian Banana Tree). A foliage plant of magnificent proportions; for subtropical massing, or as single specimens it is strikingly effective. Seeds sown early in the house will produce plants 10 to 15 feet high the first season. Pkt. 25 cts.

MIMOSA pudica (Sensitive Plant). A very curious plant. The leaves instantly close up when touched. Tender annual. Pkt. 5 cts.

MIMULUS. The plants of Mimulus are beautiful and tender-looking, with almost transparent branches. They luxuriate in damp, shady situations; musk-scented. Tender annual. 1 foot.

Moschatus (Musk Plant). Pkt. 10 cts.

Splendid Mixed. Pkt. 5 cts.

MOMORDICA

(Balsam Apple and Balsam Pear)

Luxuriant annual climbers, with large leaves, making dense shade. The flowers are followed by ornamental, large fruits of orange or copper color, which burst and expose an interior of red, which is highly effective. 15 to 20 feet.

Balsamina (Balsam Apple). Orange fruits. Pkt. 5 cts., oz. 30 cts.

Charantia (Balsam Pear). Coppery scarlet fruits. Pkt. 5 cts., oz. 30 cts.

Our stocks of Dahlias and Gladioli have been selected from the finest varieties in commerce.



LUPINUS POLYPHYLLUS ROSEUS

MARIGOLD

The African and French Marigolds are old favorite free-flowering annuals of easy culture; both are extremely effective. The former have uniformly large, yellow or orange-colored flowers, and are well adapted for large beds or mixed borders, the latter are dwarfer in growth, with beautifully striped flowers, and better suited for bedding purposes and for pot culture; they succeed best in a light soil, with full exposure to the sun. A vase or bowl of any of the rich yellow sorts in combination with a few blue larkspurs or cornflowers is very striking.

TALL AFRICAN MARIGOLDS

Few plants have to their credit the mass of glorious color such as is furnished by Marigolds and zinnias in the garden. Their season of bloom during the summer until fall strongly suggests their use. Seed of this type should be sown outdoors in May and transplanted, leaving at least 18 inches each way between the plants, as they are robust growers and can attain their maximum development only if given plenty of growing room.

Giant Show Lemon. This highly meritorious strain of the African Marigold is grown specially for us by a specialist in Europe who selects only the finest blooms and plants of unusually good constitution for seeding purposes. Height 2½ feet. Pkt. 25 cts., 5 pkts. \$1.

Giant Show Orange. The darker form of the preceding variety. Height 2½ feet. Pkt. 25 cts., 5 pkts. \$1.

Double Mixed......\$0 05 \$0 50
Orange-Yellow......05 50

Light Yellow. Pkt. 5 cts., oz. 50 cts.

Orange Quilled. Pkt. 5 cts., oz. 40 cts.

Lemon Quilled. Deep lemon flowers daintily quilled. Pkt. 5 cts., oz. 50 cts.

Eldorado. Flowers very large, imbricated and extremely double, colors in all shades of yellow. Pkt. 5 cts., ¼ oz. 25 cts.



MARIGOLD, GIANT SHOW ORANGE



S. & W. CO.'S TRIUMPH MIGNONETTE

DWARF FRENCH MARIGOLDS

These differ from the Tall African, having small, flat flowers of a somewhat velvety sheen, and grow to a height of 12 to 15 inches.

Legion of Honor. Dwarf, compact, with dark green, fern-like leaves and bright golden, star-like flowers distributed over the surface; the center of each petal is marked broadly with velvety crimson-brown. Pkt. 10 \$0 10 Oz. \$0 50

Little Brownie. Charming, forming compact little bushes only 5 to 6 inches high. It is remarkable for blossoming extremely early and in prodigious abundance, commencing in June. The flowers are vividly colored golden yellow, marked with a large spot of velvety crimson. Pkt. 10 \$0 10 Oz. \$0 50

Lutea. Pure yellow; very double. Pkt. 10 \$0 10 Oz. \$0 50

Silver King. Pkt. 10 \$0 10 Oz. \$0 50

Dwarf Mixed. Pkt. 10 \$0 10 Oz. \$0 50

MIGNONETTE (Reseda)

Well-known, sweet-scented little plants, everywhere at home, either in the greenhouse, garden or sitting-room. Hardy annual.

S. & W. Co.'s Triumph. This Mignonette is one of the choicest varieties for winter forcing. In type similar to Allen's Defiance, except that spikes are more compact and the individual florets are much larger in size. Seed of this grand variety is grown in our greenhouses, and is saved from the best spikes. Pkt. 50 cts.

Allen's Defiance. This gorgeous Mignonette has qualities heretofore unknown in large-flowering varieties, being deliciously fragrant. When grown under favorable conditions and with proper care, its spikes will be from 12 to 15 inches long. The individual florets are of remarkable size and stand out boldly, forming a graceful as well as compact spike. Its remarkable strength is accompanied by extraordinary keeping qualities; the spikes have been kept in a vase three weeks after cutting, retaining their grace and fragrance until every bud opened. Pkt. 10 cts., oz. \$2.

Improved Large-flowering. Pkt. 5 cts., oz. 25 cts.

Golden Queen. Yellow-tinted flowers. Pkt. 10 cts., oz. 50 cts.

Miles' Spiral. Very fine. Pkt. 5 cts., oz. 60 cts.

Machet. A dwarf French variety, with broad spikes of very fragrant red flowers; one of the best varieties for either garden or pot culture. Pkt. 10 cts., oz. \$1.

Machet, Ruby. A fine new Machet Mignonette, with coppery scarlet flowers. Pkt. 10 cts., oz. \$2.

Machet, Bismarck. A new imported variety. Pkt. 10 cts.

Odorata maxima, Goliath. Bears very large flowers, the center spikes being often 8 inches long. The plant grows in candelabra form and produces fiery red flowers on firm, upright stalks. Pkt. 10 cts., oz. \$2.

Parsons' White. Nearly white. Pkt. 5 cts., oz. 75 cts.

Stumpp & Walter Co.'s Superb Nasturtiums

Few garden annuals respond with as little care as the Nasturtium. For ease of culture, duration of bloom, brilliancy of coloring and general excellence, they are unexcelled. All they need is a moderately good soil, in a well-drained, sunny position, and from within a few weeks from the time they are sown until hard frost comes there is an endless profusion of their gorgeous blossoms. The varieties offered below were selected, after exhaustive trials, from a very large number of sorts as being the best and most distinct.

NEW GIANT-FLOWERING

We have arranged with a grower, who has made growing Nasturtiums a specialty, to grow this Giant-flowering strain for us. The plants are strong and vigorous, with very large, bright green leaves, measuring from 5 to 8 inches across. The flowers, which are very numerous, measure 3 inches in diameter, and are borne on long stems well above the foliage. They are exquisitely formed, with overlapping, crinkled petals. They are produced in great numbers and have a most striking effect. Their fine color, long stems, great size and esthetic form make them valuable for cutting. We can offer it only in selected mixtures of both the Dwarf Bedding and the Tall Climbing kinds.

Giant Tall, Mixed. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 60 cts., lb. \$1.50.
Giant Dwarf, Mixed. Pkt. 10 cts., oz. 25 cts., $\frac{1}{4}$ lb. 75 cts., lb. \$2.

TOM THUMB DWARF OR BEDDING

Aurora. Salmon-rose.
Beauty. Light scarlet, mottled yellow.
Brilliant. Rich scarlet.
Chameleon. Various colors on one plant.
Crystal Palace Gem. Sulphur, maroon-blotches.
Empress of India. Brilliant crimson; dark foliage.

King Theodore. Deep crimson-maroon; dark foliage.
King of Tom Thumbs. Dark scarlet; dark foliage.
Lady Bird. Orange-yellow, spotted red.
Luteum. Pure, light yellow.
Pearl. Pure white.
Ruby King. Light ruby-red.

Price of any of the above named Dwarf sorts, pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 50 cts.

Special Collections: 1 pkt. each of 6 of these varieties, 25 cts.
 1 pkt. each of 12 of these varieties, 50 cts.

Dwarf, Mixed. A mixture of above-named sorts. Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 40 cts.

Dwarf, Ivy-leaved. Beautiful, dark green, ivy-like foliage, composing into an effective setting for the lovely flowers of various colors. **Mixed Colors.** Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 75 cts.

Dwarf, Variegated-leaved. These comparatively new varieties are equally thrifty and robust in growth and produce freely as beautiful flowers in various colors as the plain green-leaved Nasturtiums, with the added merit of ornamental foliage which renders them beautiful objects even out of flower. We offer in a mixture of best colors. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 75c.

TALL OR CLIMBING VARIETIES

Elegant and luxuriant climbers for verandas, trellises, etc. May be used to cover unsightly railings and to trail over rough ground with fine effect. The seed-pods can be gathered while green and tender for pickling; 6 to 10 feet.

Chameleon. Differently rich-colored flowers on the same plant.
Crimson. Rich and velvety.
Dunnett's Orange. Rich golden orange, garnet blotches.
King Theodore. Deep crimson-maroon, dark foliage.
Pearl. Creamy white.
Prince Henry. Cream, spotted and tipped scarlet.
Rose. A lovely shade of ruby-rose.
Scarlet. Glowing vermilion.
Yellow. Pure yellow. Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 50 cts.
Tall Mixed. A mixture of the above-named sorts. Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 40 cts.
Jupiter. Magnificent flowers of a brilliant golden yellow. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 75 cts.
Moonlight. Immense, creamy white flowers. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 75 cts.
Sunlight. Pure, rich butter-yellow; frequently measuring 3 inches across. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 75 cts.

Special Collections: 1 pkt. each of 6 named varieties, 25 cts.
 1 pkt. each of 12 named varieties, 50 cts.

Tall, Ivy-leaved. Similar in type to the Dwarf Ivy-leaved in Tall varieties. **Mixed Colors.** Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 75 cts.

Tall, Variegated-leaved. Similar in type to the Dwarf Variegated-leaved, in Tall-growing sorts. **Mixed Colors.** Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 75 cts.

S. & W. Co.'s
Giant-flowering
Nasturtiums

PHLOX DRUMMONDII (Hardy Annual)

The *Phlox Drummondii* is one of our best annuals, flowering freely all the summer. For richness of color they cannot be surpassed. They are invaluable for beds and ribbon-gardening, therefore no garden should be without them. They should be sown outdoors in May, in a situation well open to the sun, and they will flower and be a mass of color in July and continue until late autumn. Seeds may be sown in a hotbed in March and flowers be had in June.

Large-Flowering Tall Varieties

This is the finest type, having the largest heads of bloom as well as the largest individual flowers; of strong, sturdy growth, attaining a height of about 15 inches.

	Pkt.	1/2 oz.
Brilliant. Finest crimson.....	\$o 10	\$o 75
Carmine. Carmine with white eye.....	10	75
Chamois-Rose. Shell-pink.....	15	1 00
Isabelliana. Tea-rose-yellow.....	15	1 00
Kermesina. Scarlet-striped.....	10	75
Leopoldii. Rose with white eye.....	15	1 00
Purple. Deep purple.....	10	75
Purple King. Purple, white eye.....	10	75
Rosea. Enchantress-pink.....	10	75
Scarlet. Rich scarlet.....	10	75
Splendens. Deep crimson, white eye.....	10	75
White. Pure white.....	10	75
Finest Tall Mixed	10	60

Imported Collection. 1 pkt. each of 6 varieties \$0 50
1 pkt. each of 12 varieties 1 00

Large-Flowering Dwarf Varieties

This type resembles the tall sorts offered in size of blooms but the plants are dwarfer in habit.

	Pkt.	1/2 oz.
Chamois-Rose. Shell-pink.....	\$o 10	\$1 25
Defiance. Brilliant crimson.....	10	1 25
Fireball. Scarlet.....	10	1 25
Purple.	10	1 25
Snowball. Pure white.....	10	1 25
Surprise. Vermilion, white center.....	10	1 25
Finest Dwarf Mixed	10	1 00

IMPORTED COLLECTION: 1 pkt. each of 6 varieties, 50 cts.

Star of Quedlinburg. Of dwarf habit; very pretty, star-shaped flowers; a novel variety; mixed colors. Pkt. 10 cts., 1/4 oz. 35 cts.

HARDY PHLOX

Magnificent, hardy, flowering plants, growing into strong bushes from 2 to 3 feet high, bearing immense heads of large, waxy flowers of lovely shades of color.

	Pkt.
Large-flowering Hybrids, Tall Mixed	\$o 10
Large-flowering Hybrids, Dwarf Mixed	10
Large-flowering, Red Shades Mixed	25

NEMOPHILA. Splendid annuals for garden decoration; bright-colored flowers, in shades of blue, white and violet. 1 foot. **Finest Mixed.** Pkt. 5 cts.

NICOTIANA affinis. An annual with sweet-scented, pure white, star-shaped flowers, 3 inches across, blooming continually. 2 to 3 feet high. Pkt. 5 cts.

Giant Red-flowered. Magnificent annual of tropical effect, large, luxuriant leaves and immense clusters of rich crimson flowers. 5 feet. Pkt. 5 cts.

NIGELLA

Damascena, Double Mixed (Love-in-a-Mist). Pretty garden annuals with feathery green foliage, in which large, double, charming blue or white flowers are set. 1 to 2 feet high. Pkt. 5 cts., 1/2 oz. \$0 35

Damascena. Blue..... 05 35
White..... 05 35

Hispanica. Blue..... 05 35

Miss Jekyll. A lovely variety with cornflower-blue blossoms; splendid for cutting. Hardy annual, growing about 2 feet high. 10 50

CENOTHERA Fraseri (Evening Primrose). Hardy perennial border plants of value. Beautiful yellow flowers. July to October. 1 1/2 ft. 1/4 oz. \$1.50 25

Lamarekiana. Hardy perennial. Enormous yellow flowers. July to October. 3 feet..... 05 30

Missouriensis. Hardy perennial. Rich yellow flowers. 4 to 5 inches across, on trailing, ascending branches. June to August. 1 foot..... 10 1 50

OXALIS. Pretty, little, half-trailing annuals, for hanging-baskets, vases, rockwork and edgings, flowering in profusion. 6 to 9 in. Pkt.

Floribunda alba. Fine for edgings..... \$o 10

Floribunda rosea. Fine for edgings..... 10

Fine Mixed..... 05

PEPPER, Celestial. Finest strain. One of the decorative plants largely used for Christmas. Pkt. 25 cts.

PHYSOSTEGIA

Virginica (False Dragon Head). One of the prettiest hardy perennials, forming dense bushes, 3 to 4 feet high, and bearing freely during the summer months spikes of delicate lilac tubular flowers not unlike a giganitic heather. Pkt. 10c.



S. & W. CO.'S LARGE-FLOWERING PHLOX DRUMMONDII

STUMPP & WALTER CO.'S GIANT PANSIES

This very popular annual needs little description. Good results may be obtained from sowing seed in April in a light, cool, but well-moistened soil, enriched with a slight amount of barnyard manure or fine ground bone. Sow seed in drills, covering them five times their diameter, and firm soil. Water once a day, except in very dry weather, when they may be watered twice a day. Seed will germinate in about two weeks and should not be allowed to dry out. A small covering of newspapers will prevent drying out. When plants are large enough to handle, they should be transplanted to a distance of 1 foot apart. Where greenhouse and coldframe facilities are at hand, seed may be sown in July or August and plants protected during winter.

Pansies in Mixture

Our Pansy Mixtures are prepared in our Flower Seed Department by an expert who has a thorough knowledge of the finest sorts extant, and is done in a very careful manner. Our Pansies have been grown throughout the United States, by leading florists, many of whom have repeated their order every year, thereby giving their unqualified indorsement to our famous strain.

World's Best Mixture. This mixture of Giant Pansies has been prepared of the finest varieties grown; blooms of gigantic size, splendid texture; the plants of robust constitution hold their majestic blooms well above the foliage. Every conceivable color and combination of colors has been included. Pkt. 25 cts., 1,000 seeds \$2, 5,000 seeds \$8.

Non Plus Ultra. A mixture of Pansies designed for the critical buyer who desires his beds to look of uniform quality, giving every conceivable color and combination of colors that exists in this highly meritorious flower. Pkt. 15 cts. 1/4oz. \$1.50, oz. \$6.

Masterpiece (Frisled Pansy). A remarkable type, each petal being conspicuously curled or waved. The color range is quite extensive, the rich, dark, velvety shades predominating. Pkt. 25 cts., 1/4oz. \$2, oz. \$7.50.

Cassier's Giant. A grand mixture of the finest blotched varieties; very large in size and rich in coloring. Pkt. 15 cts., 1/4oz. \$1.50, oz. \$5.

Mme. Perret. A new and beautiful strain, originated with a French specialist; flowers of large size, borne very freely in a great diversity of colors, especially rich in red and wine shades. Pkt. 20 cts., 1/4oz. \$2, oz. \$7.

S. & W. Co.'s Special Mixed. Pkt. 10 cts., 1/4oz. 75 cts., oz. \$2.50.

Finest English Mixed. Pkt. 5 cts., 1/4oz. 50 cts., oz. \$1.50.

Giant Pansies in Separate Colors

	Pkt.	1/4oz.	Oz.		Pkt.	1/4oz.	Oz.
Giant Adonis. Soft lavender-blue.....	\$0 15	\$1 50	\$5 00	Giant Purple	\$0 15	\$1 50	\$5 00
Giant Azure-Blue	15	1 50	5 00	Giant Snow-White	15	1 25	4 00
Giant Emperor William. Deep blue....	15	1 50	5 00	Giant White. Dark eye.....	15	1 50	5 00
Giant Fire King. Mahogany and gold...	15	1 25	4 00	Giant Pure Golden Yellow	15	1 50	5 00
Giant Lord Beaconsfield. Violet-blue...	15	1 50	5 00	Giant Yellow. Dark eye.....	15	1 50	5 00



S. & W. CO.'S GIANT-FLOWERING PETUNIAS

PETUNIA

The Petunia cannot be equaled by any plant for outdoor decoration. They will flower the first season, even if sown in the open ground, but usually not before June. Those sown in the house or hotbed in April will bloom in June and be larger and finer plants. Half-hardy annual.

S. & W. Co.'s Giant-flowering Petunias. The demand for a mixture comprising the best representative types of single-flowering Petunias has been so significant that we have by careful selection and elimination prepared a special mixture. Where a mixture of the Giant single fringed and plain-edged varieties are desired, as well as an assortment of the various colors and shades, our customers will find them **for bedding purposes the finest procurable.** Pkt. 25 cts., 5 pkts. \$1.

GIANT-FLOWERING FRINGED PETUNIAS

SINGLE VARIETIES

Under this heading we have listed the finest possible varieties of the now popular large-flowering Fringed Petunias. Whether desired for bedding, cutting or general display, the varieties listed are the best by test of the Fimbriata, or fringed large-flowering class.

	Pkt.
Single Fringed White. Pure glistening white.....	\$o 25
Yellow. Canary-yellow.....	25
Rose. Brilliant rose.....	25
Crimson. Dazzling crimson.....	25
Single Fringed Mixed. A mixture of best fringed varieties including with the above many new colors and shades. Should be grown by everyone desiring the best.....	25

DOUBLE VARIETIES

It has been a well-established fact that seed saved from the most carefully hybridized flowers produces a small percentage of double-flowering plants. It is important to save the weaker seedlings, as these invariably produce the finest double flowers.

	Pkt.
Double Fringed White.	\$o 50
Rose.	50
Crimson.	50
Double Fringed Mixed. A superb mixture of the finest double-fringed varieties, every shade and color represented. Splendid for borders or beds, keeping up a succession of bloom throughout the summer.....	50

SINGLE BEDDING VARIETIES

	Pkt.
Crimson. Beautiful and effective, compact variety; flowers brilliant crimson.....	\$o 15
Rosy Morn. Soft carmine-pink, white center; used very extensively for borders, beds or rockeries.....	15
Snowball. An excellent, compact variety, producing pure satiny white flowers throughout the entire season; very dwarf.....	15

	Pkt.
Howard's Star. Rich crimson with distinct white star in the center.....	\$o 15
Countess of Ellesmere. Dark rose with fine white throat.....	10
Inimitable compacta. Bushy little plants covered with pretty striped and star-shaped flowers.....	10
Special Bedding, Mixed. Select, bright colors..... 1/4 oz. 25c...	05

PENTSTEMON (Beard Tongue)

Highly useful and attractive hardy perennial, and much used in the hardy border.

S. & W. Co.'s Giant-flowered Hybrids, Mixed.

This is a mixture of the finest giant-flowering varieties and a very excellent assortment of colors. Pkt. 25 cts.

Sensation. As a bedding plant this takes rank with the petunia, phlox, etc. It grows about 2 feet high, every branch being a spike of large, gloxinia-like flowers in a very wide range of bright colors, including rose, red, carmine, cherry, pink, lilac, purple, etc. Not quite hardy, and best treated like petunias, verbenas, salvia, etc. Pkt. 15 cts., 2 pkts. 25 cts.

Digitalis (Foxglove Pentstemon). Spikes of white flowers, with purple throat, during July and August. Pkt. 10 cts.

Pubescens. Spikes of bright rosy purple flowers in July and August; 1½ feet. Pkt. 10 cts.

Mixed. Good assortment of colors. Pkt. 5 cts.

PHYSALIS Franchetti (Chinese Lantern Plant). An ornamental variety of the Winter Cherry, forming dense bushes about 2 feet high, producing bright orange-scarlet lantern-like fruits. Hardy perennial; flowers in fall. Pkt. 25 cts.

PUERARIA THUNBERGIANA

(Japanese Kudzu Vine)

To this must be awarded first place as the fastest-growing hardy climbing plant. It will grow 8 to 10 feet the first year from seed, and after it has become established there seems to be no limit to its growth, 50 feet in a single season being not unusual. Its foliage is large and covers well; it bears small racemes of rosy purple, pea-shaped blossoms toward the close of August. A splendid subject for permanently covering verandas, dead trees, etc. Pkt. 10 cts., ¼oz. 30 cts.

PASSION FLOWER. Handsome, rapid-growing perennial climber for greenhouse decoration or sunny positions in the open ground in summer. Pkt.

Cerulea. Large flowers of violet and blue.....\$0 10

Alba. Large, white flowers.....10

Incarnata. Flesh-colored.....10

COLLECTION. One packet of each.....\$0 25



SHIRLEY POPPIES

PORTULACA Hardy Annual

SINGLE GRANDIFLORA

	Pkt.	Oz.
Alba. Pure white.....	\$0 05	\$0 60
Aurea. Deep golden yellow.....	05	60
Rosea. Beautiful rose.....	05	60
Splendens. Crimson.....	05	60
Finest Mixed.	05	40

DOUBLE GRANDIFLORA

Alba. White.....	10	4 00
Rosea. Rose.....	10	4 00
Salmonea. Salmon.....	10	4 00
Splendens. Crimson.....	10	4 00
Sulphurea. Yellow.....	10	4 00
Finest Mixed.	10	3 50

POLEMONIUM (Jacob's Ladder). Hardy perennial, with clusters of blue-and-white flowers. Foliage deeply cut and ornamental. 2 feet. May to August. Pkt. Oz.

Ceruleum grandiflorum. Deep blue.....\$0 10 \$0 75

Ceruleum album. Pure white.....10 75

Richardsonii. Sky-blue.....10 1 00

PLATYCODON. See **Wahlenbergia.**

POPPIES

There is probably no flower of greater popularity than the Poppy, particularly the annual varieties.

Single Hardy Annual Poppies

	Pkt.	Oz.
Shirley, Carmine Shades.	\$0 10	\$0 75
" Rose Shades.	10	75
" Salmon Shades.	10	75
" White Shades.	10	75
" Finest Mixed.	05	50

Admiral. A single peony-flowered variety of surpassing beauty, having large, smooth-edged flowers of glistening white, with a broad band of brilliant scarlet around the top. Excellent for grouping. 10 1 00

Danebrog. Large flowers of brilliant scarlet, with a silvery white spot on each petal.....05 25

Glaucum (Tulip Poppy).....10 50

English Scarlet. Very attractive.....10

Double Hardy Annual Varieties

	Pkt.	Oz.
American Flag. White-margined orange-scarlet.....	\$0 10	\$0 30
Carnation-flowered. Finest mixed.....	05	25
White Swan. Immense flowers, beautifully fringed...	05	25
Peony-flowered. Mixed.....	05	25
Ranunculus, or French, Mixed.	05	25

Hardy Perennial Varieties

Too much cannot be said of this class of Poppies, as for general effectiveness and brilliancy of display they are unequalled.

	Pkt.	Oz.
Bracteatum, Scarlet. Immense orange-scarlet flow-ers, very similar to the Oriental variety	\$0 10	
Iceland (Nudicaule) Scarlet.	10	\$1 00
" White.	10	1 00
" Yellow.	10	1 00
" Mixed.	10	75
" Double Mixed.	10	75
Oriental, Rose. 3 feet.....	10	1 50
" Brilliant Scarlet. 3 feet.....	10	1 50
" Little Prince. 1½ feet.....	10	
" Prince of Orange. 3 feet.....	10	
" Finest Mixed.	10	

SOW ANNUAL POPPIES EARLY IN SPRING WHERE INTENDED TO BLOOM

PRIMULA (Primrose)

The charming and beautiful Chinese Fringed Primroses and Obconica varieties are among the most important winter-blooming pot-plants. The seed we offer is of the highest merit, and has, as usual, been saved from the best strains of English and Continental growth. Florists and others report that they have never seen finer flowers than those produced from our seed. Seed sown in April will bloom during early winter; August for spring blooming. Sow in shallow pans, in soil consisting of part sand and leaf-mold worked through a fine sieve and allow for good drainage. Cover seeds lightly and water frequently; give a temperature of about 65 degrees.

Primula Sinensis (Chinese Primrose)

This beautiful Chinese Fringed Primrose is indispensable for spring decoration in the home or conservatory, and ranks as one of the finest of all winter-blooming pot-plants grown by the florist or the home gardener. Our Giant Fringed strain is of the highest merit and is carefully selected

Giant magnifica, Blue
Giant Crimson
Giant Rose Queen
Giant Ruby Queen

Giant Salmon
Giant White, Fern-leaved
Giant Mixed

Pkt. 75 cts.; collection of 6 pkts. for \$4.25

Giant Double, White
Giant Double, Scarlet
Giant Double, Blue

Giant Double, Rosy Pink
Giant Double, Salmon-Pink
Giant Double, Mixed

Pkt. 75 cts.; collection of 6 pkts. for \$4.25

Primula stellata

A very pretty form, with large heads of star-shaped flowers of various colors; a splendid type for decorative purposes.

Giant White Star
Giant Salmon-Pink

Giant Crimson Star
Giant Blue Star

Giant Rosy Star
Giant Mixed

Pkt. 75 cts.; collection of 6 pkts. for \$4.25

Primula obconica gigantea

This type of Primula outrivals the old Obconica type, the flowers being considerably larger, often measuring 1½ inches in diameter.

		Pkt.
Obconica gigantea	Kermesina. Rich crimson.....	\$o 25
"	rosea. Rose.....	25
"	alba.....	25
"	lilacina. Beautiful lilac.....	25
"	Mixed. A mixture containing pure white to crimson	25

HARDY PRIMROSES

These are among the best of the early spring-blooming plants. With a slight protection they will stand the winter, but will do better if protected by a coldframe.

Auricula. A well-known Pkt. favorite of great beauty; seed saved from splendid choice mixed varieties. 6 inches....\$o 15

Japonica (Japanese Primrose). Bright and showy flowers, borne in whorls on stems 6 to 9 inches long; Mixed.. 10

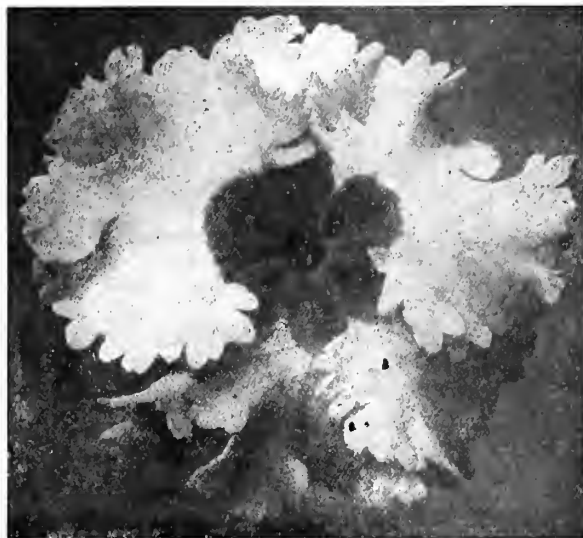
Vulgaris (English Primrose). Canary-yellow; fragrant. ¼oz. 50 cts., pkt. 10 cts. For **Primula Forbesi**, **Kewensis** and **malacoides** see page 6.

PYRETHRUM

The first-named variety is the well-known Golden Feather so much used for edging, carpet-bedding, etc., while the others are most attractive hardy plants, with daisy-like flowers that are perfect gems for cutting. No hardy border should be without these charming plants, as their flowers make delightful subjects for home decoration. **Aureum** (Golden Feather). Half-hardy perennial, grown as an annual. Valuable for edging, as the foliage makes a fine contrast with other bedding plants. Pkt. 5 cts., oz. 50 cts.

S. & W. Co.'s Single Hybrids. Our strain of this beautiful hardy perennial has been grown specially in England for us by a specialist of this flower. The cosmos-like flowers range in color from the palest pinks to deep red, the bright yellow centers forming a splendid contrast. Blooming as they do during May and June and again in the fall, and on account of their long-lasting and utility as a cut-flower, we recommend them highly to our patrons. Pkt. 25 cts., 5 pkts. \$1.

S. & W. Co.'s Double Hybrids. Colors and character of plants similar to the above, except that centers are tufted, somewhat resembling a double China aster. Pkt. 25 cts., 5 pkts. \$1.



S. & W. CO.'S PRIMULA SINENSIS



PRIMULA VULGARIS (English Primrose)



S. & W. CO.'S SINGLE PYRETHRUM

SALPIGLOSSIS (Painted Tongue)

Few annual flowers contribute such a wealth of bloom from summer until cut down by frost. It is only of recent years that American gardeners have become better acquainted with this delightful annual. As a cut-flower it has become highly prized. The funnel-shaped flowers, facing upward, revealing their exquisite markings of either gold or silver veins running through the groundwork of the flowers, and their orchid-like appearance, make them instant favorites.

For best results sow seed in a hotbed or sunny window, and when all danger of frost is past, place in the garden, allowing 8 inches between the plants.

Salpiglossis superbissima

(Orchid-Flowering)

This orchid-flowering strain branches freely from the main stem, forming fine, spreading plants, flowering freely from all branches, making it invaluable for cutting.

	Pkt.	1/2 oz.
Purplish Violet	\$0 10	\$1 00
Pink. Bright pink	10	1 00
Light Blue. Veined gold	10	1 00
Golden Yellow. Rich color	10	1 00
Scarlet. Rich color	10	1 00
Brown with Gold.	10	1 00
Finest Mixed	10	75

COLLECTION: One packet each of 6 separate varieties, 50 cts.

Emperor. This variety forms only one leading stem, and bears at its summit a veritable bouquet of flowers in a mixture of colors, covering shades of scarlet, pink, yellow and violet. Grows about 2 feet high, and is largely used for mass effect in the garden. Pkt. 10 cts., 1/4 oz. 50 cts.



SALPIGLOSSIS SUPERBISSIMA (Orchid-flowering)

SALVIA

One of our most handsome summer- and autumn-flowering plants, growing into compact bushes about 3 feet high and literally ablaze with brilliant flowers; very effective for massing on the lawn and for garden decorations. Half-hardy perennial.

Splendens (Scarlet Sage). Beautiful bright scarlet; 3 feet. Pkt. 5 cts., oz. \$2.

Bonfire (*Salvia splendens nana compacta erecta*). This variety, without question, is the finest Salvia for bedding yet introduced. The plants grow into very compact oval bushes, about 2 1/2 feet high and produce long spikes of brilliant scarlet flowers. They stand out stiff and erect; over 200 spikes to a plant is not unusual, and the spikes bear from twenty to thirty flowers each. Gorgeous effects can be produced with the Bonfire Salvia massed on the lawn or in the garden, or planted in rows along a sunny drive, where the brilliant scarlet is simply dazzling. Pkt. 10 cts., 1/4 oz. \$1.50, 1/2 oz. \$2.50, oz. \$5.

Scarlet Dragon. This variety is an improvement on the old Splendens type, the flowers being nearly double the size, closely crowding the immense spikes that often measure 6 inches across. It forms compact bushes, 3 feet through by 3 feet high. Pkt. 10 cts., 1/2 oz. 75 cts., 1/4 oz. \$1.25.

Zurich. A splendid dwarf variety, growing about 2 feet high, and is especially valuable on account of being the earliest to bloom, flowering 10 days in advance of any other sort. Pkt. 20 cts., 1/4 oz. 75 cts.

Patens (Blue Sage). In color this is as blue as the "Scarlet Sage" is red; unlike the latter, however, it is not useful for bedding, but is a beautiful plant for the border or greenhouse; tender perennials. 2 feet. Pkt. 25 cts.

Azurea grandiflora. A hardy perennial variety, producing during August and September spikes of pretty sky-blue flowers in great profusion. 2 to 3 feet. Pkt. 10 cts.

Farinacea. A perennial variety, but best grown as an annual. Seeds sown in the open ground in May bloom from July to frost. The fine light blue flowers are borne on long spikes held above the foliage; makes a good blue line. 2 feet. Pkt. 15 cts.

Rehmannia

Angulata. Greenhouse herbaceous perennial from central China, erect habit; 2 to 3 feet in height; flowers 3 inches in diameter, rosy purple with yellow throat, spotted with deep purple; of easy culture; blooms nine months from time of sowing seed. Pkt. 25 cts.



SALVIA SPLENDENS (Scarlet Sage)



SCABIOSA

Mourning Bride; Pin-Cushion Flower; Sweet Scabious

These beautiful hardy annuals are in great demand. They grow about 2½ feet high and bloom from early in July without interruption until cut down by the frost. As a flower for cutting they are much in demand. The various shades are very charming, but are equally well adapted for borders or beds, where they display themselves very effectively. Seeds should be sown any time in the spring after danger of frost is past.

IMPROVED DOUBLE LARGE-FLOWERING

	Pkt.	Oz.
Azure Fairy. Lavender-blue.....	\$o 10	\$o 75
Fiery Scarlet. Dazzling color.....	10	75
Flesh-color. Light pink.....	10	75
Cherry-Red. Rich red.....	10	75
King of the Blacks. Purplish black.....	10	75
White. Pure white.....	10	75
Tall Double-flowering, Mixed.....	o5	50
Dwarf Double-flowering, Mixed.....	o5	50
COLLECTION. One packet each of 6 separate varieties, \$o 50		

HARDY PERENNIAL VARIETIES

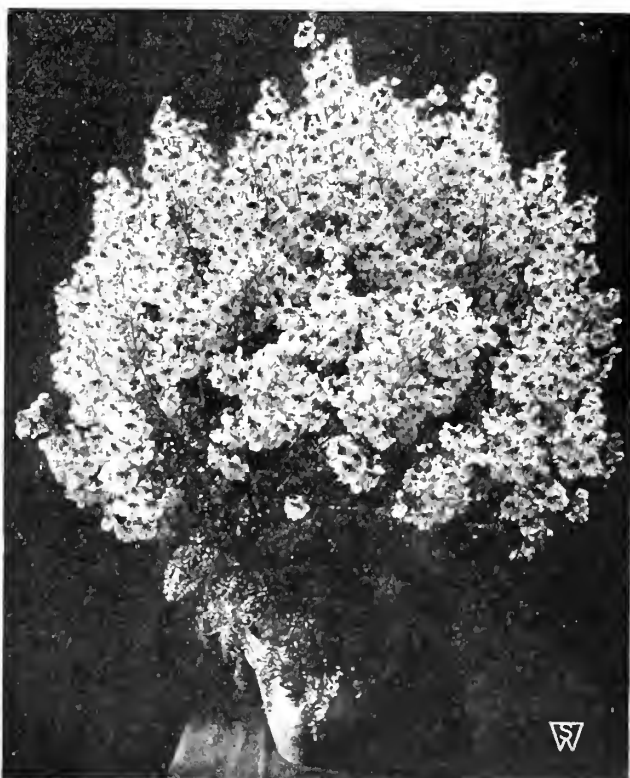
Caucasica (Blue Bonnet). One of the handsomest of hardy perennials, especially valuable for cutting, the blooms lasting a long time in water; lilac-blue. 3 feet. Pkt. 10 cts.

Caucasica alba. Pure white. 3 feet. Pkt. 10 cts.

Japonica. A hardy perennial variety from Japan, forming bushy plants 2½ feet in height by the same through, and bearing on long, wiry stems beautiful, artistic, lavender-blue flowers, extremely floriferous, producing a continuous crop all summer. A fine cut-flower. Pkt. 15 cts.

SCHIZANTHUS (Butterfly or Fringe Flower)

These dainty annual plants are of easy culture in any good garden soil. The dwarf sorts are frequently used for edging borders or beds. For outdoor blooming, sow seed in May where



SCABIOSA, IMPROVED LARGE-FLOWERING

Dwarf Hybridus grandiflorus. New. A very popular strain of this well-known showy annual; plants grow 12 inches in height, of compact and pyramidal habit, with a great range of colors, bright and handsome. Splendid for border planting. Pkt. 25 cts.

Wisetonensis. A variety largely used as a pot-plant for the house or conservatory. It is remarkably free-flowering, and presents a beautiful appearance, with its myriads of blooms, the ground-color of which is white, dotted with delicate rose. Pkt. 25 cts.

Mixed. A splendid mixture of the regular type. Pkt. 10 cts.

SENSITIVE PLANT. See *Mimosa*.

SILENE (Catchfly). Bright-colored, free-flowering annuals, suitable for rockwork or open borders. The variety *Pendulata* is largely used for spring borders or beds.

Armeria. Separate colors—Red, White or Pink. Pkt. 10 cts.

Pendulata. Separate colors—Pink or White. Pkt. 10 cts.

Pendulata, Double. Mixed colors. Pkt. 10 cts.

SHAMROCK, Small-leaved. Pkt. 50 cts.

SMILAX (*Myrsiphyllum asparagoides*). In many respects the Smilax is the most useful, and it is certainly one of the most graceful climbers which adorn the greenhouse or conservatory; for bouquets and floral decorations it is indispensable. The hard seeds need soaking over night before planting; also bottom heat to sprout them. Pkt. 10 cts., ¼oz. 25 cts.

SCHIZANTHUS WISETONENSIS

Giant Waved or Spencer Sweet Peas

The Spencer Waved Sweet Pea is a distinct advance in the development of the Sweet Pea. No modern garden is complete without this grand type. The chief characteristic of the Spencer Sweet Peas is their robust growth, plants frequently attaining a height of 6 to 10 feet, requiring a foot of space in the row for each plant to fully develop. The flowers are gracefully formed; both standard and wings are larger than in the Grandiflora type, flowers often measure 2 to 2½ inches in diameter and are borne on stems 18 inches long, with four blooms.

In order to make it less difficult for the amateur or professional gardener to choose varieties according to color and shades, we have prepared color classifications of all Spencer Sweet Peas which we catalog. For this classification, see page 9.

AFTERGLOW. Pastel shade; standard bright violet-blue, shading to rosy amethyst, wings electric blue. Pkt. 20c., oz. 60c., ¼lb. \$2.
AGRICOLA. Pleasing shade of bluish-pink, suffused rosy lilac. Special strain. Pkt. 20 cts., oz. 60 cts., ¼lb. \$2.
AMERICA SPENCER. White ground, mottled and flaked crimson-scarlet. Pkt. 10 cts., oz. 30 cts., ¼lb. \$1.
ASTA OHN. Soft pinkish lavender. Pkt. 10c., oz. 35c., ¼lb. \$1.25.
AURORA SPENCER. White ground, striped and flaked orange-pink. Pkt. 10 cts., oz. 35 cts., ¼lb. \$1.25.
BARBARA. Salmon-colored; quite uniform. Special strain. Pkt. 15 cts., oz. 50 cts., ¼lb. \$1.50.
BLANCHE FERRY SPENCER. Standards rose, wings white. Pkt. 10 cts., oz. 30 cts., ¼lb. \$1.
BLUE PICOTEE. White ground edged pale blue. Pkt. 25 cts., 5 pkts. \$1.
CAPTAIN OF THE BLUES SPENCER. Pure purple, margin of petals marbled. Pkt. 15 cts., oz. 50 cts., ¼lb. \$1.50.
CHARLES FOSTER. Pastel shade; general effect of flower mauve-pink. Pkt. 20 cts., oz. 60 cts., ¼lb. \$2.
CHERUB. Deep creamy buff edged bright rose. Pkt. 25c., 5 pkts. \$1.
CONSTANCE HINTON. The best black-seeded white Spencer. Pkt. 20 cts., oz. \$1.
COUNTESS SPENCER. Bright shade of pink. Pkt. 10 cts., oz. 30 cts., ¼lb. \$1.
DAINTY SPENCER. White ground, beautiful picotee edge of rose-pink. Pkt. 10 cts., oz. 35 cts., ¼lb. \$1.25.



Captain of the Blues Spencer Sweet Peas

DECORATOR. The general tone is a deep cerise. Pkt. 20 cts., oz. 75 cts., ¼lb. \$2.50.
DOBBIE'S CREAM. Deep cream; a grand variety. Special strain. Pkt. 20 cts., oz. 60 cts., ¼lb. \$2.
ELFRIDA PEARSON. Giant size; pale pink on white ground. Pkt. 15 cts., oz. 50 cts., ¼lb. \$1.50.
ETTA DYKE. A splendid white variety. Pkt. 10 cts., oz. 35 cts., ¼lb. \$1.25.
FIERY CROSS. A very striking bright shade of orange-scarlet. Pkt. 25 cts., 5 pkts. \$1.
FLORENCE MORSE SPENCER. Standard richly flushed pink, wings soft blush. Pkt. 10 cts., oz. 30 cts., ¼lb. \$1.
FLORENCE NIGHTINGALE. Rich lavender, soft pink sheen. Pkt. 10 cts., oz. 50 cts., ¼lb. \$1.50.
GEORGE HERBERT. Rose-crimson, suffused with magenta. Pkt. 10 cts., oz. 35 cts., ¼lb. \$1.25.
HELEN LEWIS. Fine orange-salmon-pink. Pkt. 10 cts., oz. 35 cts., ¼lb. \$1.25.
HERCULES. Might well be described as a giant or larger Countess Spencer. Pkt. 20 cts., oz. 60 cts., ¼lb. \$2.
JESSIE CUTHBERTSON. Rich cream ground-color overlaid with stripes and marblings of bright rose-pink. Pkt. 20 cts., oz. 75 cts., ¼lb. \$2.50.
KING EDWARD SPENCER. A pure red Spencer. Special strain. Pkt. 10 cts., oz. 35 cts., ¼lb. \$1.25.
KING WHITE. The finest white for exhibition. Special strain. Pkt. 20 cts., oz. 75 cts., ¼lb. \$2.50.
LOYALTY. Ground-color white, striped and flaked blue. Pkt. 10 cts., oz. 35 cts., ¼lb. \$1.25.
MARGARET ATLEE. Warm salmon-pink, suffused over a cream ground; exquisite. Special strain. Pkt. 20 cts., oz. 60 cts., ¼lb. \$2.
MARGARET MADISON. A self-colored clear azure-blue; exquisite. Pkt. 20 cts., oz. 60 cts., ¼lb. \$2.
MRS. CUTHBERTSON. Standard clear rose-pink, wings white, with faint blush of pink. Special strain. Pkt. 20c., oz. 60c., ¼lb. \$2.
MRS. C. W. BREADMORE. Creamy buff ground, beautifully edged with rose-pink. Special strain. Pkt. 15c., oz. 50c., ¼lb. \$1.50.
MRS. HARDCASTLE SYKES. Blush-pink. Special strain. Pkt. 20 cts., oz. 60 cts., ¼lb. \$2.
MRS. HUGH DICKSON. The best of the cream-pinks. Pkt. 15 cts., oz. 50 cts., ¼lb. \$1.50.
MRS. ROUTZAHN. Beautiful blending of soft straw-color, tinted blush-pink. Pkt. 10 cts., oz. 35 cts., ¼lb. \$1.25.
MRS. TOWNSEND. White ground, edged pale blue. Pkt. 15 cts., oz. 50 cts., ¼lb. \$1.50.
NUBIAN. The finest deep chocolate-maroon. Pkt. 15 cts., oz. 50 cts., ¼lb. \$1.50.
OTHELLO SPENCER. Glossy maroon. Pkt. 10c., oz. 30c., ¼lb. \$1.
PRIMROSE SPENCER. The finest primrose. Special strain. Pkt. 15 cts., oz. 50 cts., ¼lb. \$1.50.
QUEEN VICTORIA SPENCER. Opens blush-tint, then turns to clear primrose. Black-seeded. Pkt. 10 cts., oz. 30 cts., ¼lb. \$1.
R. F. FELTON. An English variety, somewhat similar in color to Florence Nightingale. Pkt. 20 cts., oz. 75 cts., ¼lb. \$2.50.
ROYAL PURPLE. A beautiful shade of rich royal purple. Pkt. 20 cts., oz. 75 cts., ¼lb. \$2.50.
SENATOR SPENCER. Chocolate and seal-brown striped, flaked and mottled on ivory-white. Pkt. 10 cts., oz. 30 cts., ¼lb. \$1.
STIRLING STENT. Glorious deep salmon, suffused with orange. Pkt. 15 cts., oz. 50 cts., ¼lb. \$1.50.
TENNANT SPENCER. A curious purplish mauve. Pkt. 10 cts., oz. 30 cts., ¼lb. \$1.
THOMAS STEVENSON. Brilliant orange-scarlet, the finest of its color. Special strain. Pkt. 20 cts., oz. 60 cts., ¼lb. \$2.
VERMILION BRILLIANT. Brilliant scarlet; very fine. Pkt. 20 cts., oz. 60 cts., ¼lb. \$2.
WEDGEWOOD. Bright silvery blue with a faint suggestion of mauve in the standard. Pkt. 20 cts., oz. 75 cts., ¼lb. \$2.50.
WHITE SPENCER. Splendid, uniform white. Pkt. 10 cts., oz. 30 cts., ¼lb. \$1.
W. T. HUTCHINS. Soft delicate blush and straw, shaded apricot. Pkt. 10 cts., oz. 30 cts., ¼lb. \$1.

GRAND PRIZE MIXTURE
Giant Spencer Sweet Peas

This is a combination of the best varieties of the Spencer Sweet Peas, and includes every described color and shade, good care being taken to have all the best varieties.

Packet.....	\$0 10
Ounce.....	25
Quarter-pound.....	75
Half-pound.....	1 35
Pound.....	2 50



Grandiflora Sweet Peas

Select Unwin and Grandiflora Sweet Peas

CULTURE OF SWEET PEAS. It is a well-known fact that, in order to have largest blooms of Sweet Peas, seed must be planted early so as to make the greatest root-development during early spring; many professional gardeners sow in pots and transplant in April, or sow the previous fall.

Sow seed as soon as the ground can be worked in the spring. Dig a trench about a foot wide and deep, and fill in with 6 inches of well-rotted stable manure; tread down firmly and replace the good garden soil. Draw a single straight line in the middle of the prepared surface, about $\frac{3}{4}$ inch deep; sow seed at even distances of about 3 inches and cover. When the plants grow about 3 or 4 inches high, thin out, leaving the plants 6 inches from each other. (Experts who raise for exhibition thin out to one foot.)

The cut-worm is one of the greatest enemies of Sweet Peas, attacking the young shoots just as they come up. At the first appearance of this pest a good sprinkling of lime over the row sometimes helps to exterminate it. As soon as the vines reach a height of about 8 inches, proper trellis or other supports should be provided.

The Sweet Pea is a moisture-loving plant, and by the month of May the plants will require water. In order that the water may be retained by the soil and get to the roots, as well as to keep them cool, it is advisable to use a mulch of old stable manure and soak well with hose each or every other day, as needed.

FIVE SELECT UNWINS

Although of distinct origin, Gladys Unwin is nearly of the same type as the Countess Spencer, but the flowers are not so large. These seedling varieties resemble the parent and generally come uniformly waved and fluted.

Pkt. 10 cts., oz. 25 cts., $\frac{1}{4}$ lb. 75 cts., $\frac{1}{2}$ lb. \$1.25, lb. \$2.25

E. J. CASTLE. Rich carmine-rose with salmon shading in the standard.
NORA UNWIN. Large, beautiful white; three flowers frequently come to the stem.

FRANK DOLBY. A lovely light lavender-blue, one of the best.
GLADYS UNWIN. A bold flower with a striking, upright standard which is crinkled and waved; broad wings. Of a lovely light pink.

MRS. ALFRED WATKINS. Both standard and wings are a clear pink.

SELECT GRANDIFLORA SWEET PEAS

Grandiflora Sweet Pea is a group title given the older standard and Eckford varieties. We give below a list of the best varieties, taken from over a hundred sorts. We have decided only to catalogue the finest of this type, and while our customers may find that we have failed to list an old favorite, we have endeavored to replace it with a better variety.

Blanche Ferry. Extra early; pink and white.

Black Knight. Deep maroon, self-colored.

Earliest of All. Pink and white; very early.

Earliest Sunbeams. Rich primrose, generally borne three on a strong stem.

Hon. Mrs. E. Kenyon. Primrose.

Helen Pierce. Blue-mottled on white ground; a pretty and distinct variety.

King Edward VII. Excellent scarlet flower.

Lady Grisel Hamilton. Silvery lavender.

Mrs. Walter Wright. A beautiful shade of mauve.

Mont Blanc. Earliest-flowering white.

Queen Alexandra. Considered by many to be one of the finest scarlets.

White Wonder. Truly named, this Sweet Pea often bears six flowers to a stem, some of which frequently come double.

Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 40 cts., $\frac{1}{2}$ lb. 75 cts., lb. \$1.25. One ounce will sow a single row 25 feet long

S. & W. Co.'s High-Grade Mixed.

This Mixture, covering all the varieties of Grandiflora Sweet Peas offered above, cannot be excelled where a high-grade mixture of every conceivable color and shade is desired. Great care has been exercised in a careful blending of all sorts in even proportions. **Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 30 cts., $\frac{1}{2}$ lb. 60 cts., lb. \$1.**

NEW EARLY-FLOWERING SPENCERS

FOR WINTER FLOWERING UNDER GLASS OR IN SOUTHERN GARDENS

The following varieties of new early-flowering Spencer Sweet Peas, which we listed in our Fall Catalogue for growing under glass, are admirably adapted for winter blooming in such sections as are almost free of frost. When sown outdoors, they come into bloom much earlier than the summer-flowering Spencers and continue blooming throughout a very long season, lasting almost, if not quite, as long as the summer-flowering type.

EARLY MORNING STAR. The color is a deep orange-scarlet similar to the late-flowering Thomas Stevenson. **Pkt. (15 seeds) 25 cts., $\frac{1}{4}$ oz. \$1.75.**

EARLY SONG BIRD. A very beautiful shade of pale pink, similar to the late-flowering Elfrida Pearson. **Pkt. (25 seeds) 25 cts., $\frac{1}{4}$ oz. \$1.50.**

EARLY MELODY. A deeper shade than Early Song Bird, resembling Countess Spencer in the late-flowering Spencers. **Pkt. (25 seeds) 25 cts., $\frac{1}{4}$ oz. \$1.50.**

EARLY SNOWFLAKE. This is one of the best early-flowering, white-seeded, white Spencers. The blooms are large and exquisitely waved. **Pkt. (15 seeds) 25 cts., $\frac{1}{4}$ oz. \$1.75.**

EARLY SPRING MAID. The color is a light pink on a cream ground. A very attractive variety, being very similar to Mrs. Hugh Dickson in the late-flowering Spencers. **Pkt. (25 seeds) 25 cts., $\frac{1}{4}$ oz. \$1.50.**

EARLY HEATHER BELL. A very pleasing shade of mauve. The flowers are large and well waved. **Pkt. (25 seeds) 25 cts., $\frac{1}{4}$ oz. \$1.50.**

YARRAWA. This variety, which was one of the first of the new early-flowering Spencers, is of a beautiful deep rose-pink color. A very vigorous grower and a wonderful bloomer. The flowers are large and splendidly waved. **Pkt. 20 cts., $\frac{1}{4}$ oz. 50 cts., oz. \$1.50.**

STOCKS

These popular flowers are easily grown, and are so highly fragrant and of such great beauty, and have so many good qualities, that they deserve a place in every garden. They should be given good rich soil to grow in, and will amply reward good treatment with remarkably large pyramids of bloom; the flowers represent a great diversity of color. The Tall Perfection and Dwarf Bouquet Stocks are great improvements over the Gilliflowers of the olden times, the flowers being much larger and more densely double, and there is also a much larger variety of colors and shades than there used to be.

As they are half-hardy annuals, seed should be started in the house or hotbed during March or April, and planted into small pots; and then set out in the garden during May, allowing 1 foot of space between the plants, in order that they may attain full and perfect development.

Our stock seed is high-bred, being produced from plants grown in pots by a specialist, and will afford a very large percentage of double-flowering plants.

S. & W. Co.'s Improved Giant Perfection

These are an improvement on the variety offered as Ten Weeks Stock. Of splendid, pyramidal growth, freely branching from the main stem, giving an abundance of large spikes of double flowers from early summer until fall, and are used largely for cutting. 2 feet.

	Pkt.	1/2oz.		Pkt.	1/2oz.
White.....	\$0 25	\$1 00	Light Blue.....	\$0 25	\$1 00
Chamois-Rose.....	25	1 00	Dark Blue.....	25	1 00
Fiery Crimson.....	25	1 00	Sulphur-Yellow.....	25	1 00
Purple.....	25	1 00	Mixed.....	25	1 00

S. & W. Co.'s Dwarf Bouquet

This is a leading class for bedding out for summer blooming. They come into bloom earlier than the preceding varieties, but are dwarfer in habit and do not make so fine flowers for cutting.

	Pkt.	1/2oz.		Pkt.	1/2oz.
White.....	\$0 25	\$1 00	Light Blue.....	\$0 25	\$1 00
Brilliant Rose.....	25	1 00	Dark Blue.....	25	1 00
Pale Pink.....	25	1 00	Sulphur-Yellow.....	25	1 00
Fiery Crimson.....	25	1 00	Mixed.....	25	1 00

Giant-Flowering Beauty Stocks

A magnificent, recently developed strain of early-flowering winter or Brompton Stocks, forming much-branched plants about 2 feet high, and having numerous spikes of very large, double, delightfully fragrant flowers; they are of special value as pot-plants for greenhouse decoration and for cutting during the dull winter months; for this purpose seed should be sown from July to September; if sown in February or March will produce plants that will bloom out-of-doors from midsummer to frost.

	Pkt.	1/2oz.
Beauty of Nice. Delicate pink.....	\$0 25	
Crimson King. Rich blood-crimson.....	25	
Empress Augusta Victoria. Rich blue.....	25	
Empress Elizabeth. Rich deep rose.....	25	
Mont Blanc. Purest white.....	25	
Queen Alexandra. Beautiful lilac.....	25	
Sulphur King. Rich yellow.....	25	

Solanum

Capsicastrum (Jerusalem Cherry). This is a very useful pot-plant for winter decoration. It is of dwarf, branching habit; leaves small and oval-shaped; bears in the greatest profusion bright scarlet, globular berries; very ornamental. 1 foot. Pkt. 10 cts.

STATICE (Sea Lavender). Splendid hardy perennial, either for the border or rockery, producing all summer panicles of minute flowers, which can be dried and used for winter bouquets. Mixed varieties. Pkt. 10 cts.

STEVIA serrata. A free-blooming plant, bearing a multitude of fragrant, pure white flowers; suitable for summer or winter blooming; largely used for cutting. Pkt. 10c.

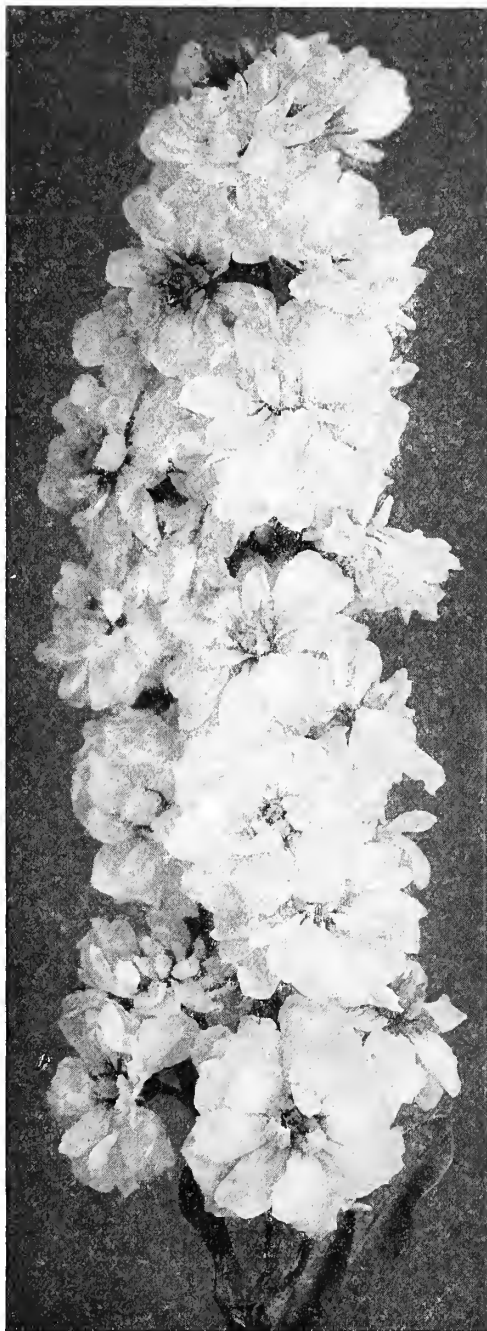
STOKESIA (Cornflower Aster)

Cyanea. This is not new, but is a rare and beautiful hardy perennial. The plant grows about 2 feet high, bearing from twenty to thirty handsome lavender-blue cornflower-like blossoms; in bloom from July till frost. One of the choicest subjects for the hardy border and indispensable for cutting. Pkt. 15 cts., 1/4oz. \$1.

Cyanea alba. A pure white-flowering form, identical to the popular blue variety in every way except color. Pkt. 15 cts., 1/4oz. \$1.

Streptocarpus hybridus

A new hybrid race of the Cape Primrose, the flowers somewhat resembling those of the gloxinia, but smaller. The plants are compact in habit, the flowers about 2 inches in diameter, with long, tube-like corollas, and are borne in clusters of six to eight on a stem, with several stems to the plants. The colors are varied from white through shades of pink, rose, wine-red, light blue, mauve, etc., many having white throats or marked in various ways. Used for greenhouse decoration. Pkt. 50 cts.



S. & W. CO.'S GIANT PERFECTION STOCKS

TAGETES signata pumila. A dwarf, compact, bushy annual Marigold, with beautiful, delicate, fern-like leaves, densely covered with flowers of bright yellow, striped brown; a first-class border plant. Pkt. 5 cts., 1/4oz. 25 cts.

THUNBERGIA (Black-eyed Susan). Beautiful, rapid-growing annual climbers, preferring a warm, sunny situation; used extensively for hanging-baskets, vases, low fences, etc.; very pretty flowers in buff, white, orange, etc., with dark eyes. 4 feet. Mixed colors, pkt. 5 cts., 1/4oz. 25c.

TORENIA Fournieri. A very fine annual; splendid for vases, hanging-baskets, borders, etc. Sky-blue, with bright yellow center. Pkt. 10 cts.

SWEET WILLIAM (*Dianthus barbatus*)

A well-known, attractive biennial which flowers the second season from seed. Sow outdoors in May, and transplant in August.

	Pkt.	1/4oz.
Single White.....	\$0 05	\$0 25
Single Crimson.....	05	25
Dark Crimson.....	05	25
Single Red, Margined White.....	05	25
Single Black-Red.....	05	25
Single Finest Mixed.....	05	20
COLLECTION. One pkt. each of 5 separate colors.....		\$0 20

	Pkt.	1/4oz.
Double White.....	\$0 10	\$1 00
Double Crimson.....	10	1 00
Double Black-Red.....	10	1 00
Double Pink.....	10	1 00
Double Finest Mixed.....	10	75

Newport Pink. A distinct new color which originated in one of the far-famed gardens at Newport, R. I. In color it is what florists call watermelon-pink or salmon-rose; strikingly brilliant and beautiful. The flowers are borne in massive heads, on stems 18 inches high. For midseason mass bedding it has no equal. It is also very effective for cutting. Pkt. 15 cts., 2 pkts. 25 cts.

Scarlet Beauty. A very effective, rich, deep scarlet variety. Pkt. 15 cts., 2 pkts. 25 cts.

Holborn Glory. This strain is a large-flowered selection of the auricula-eyed section, the most beautiful and admired of all Sweet Williams. The individual flowers and trusses are of extraordinary size, while the range of color, all showing a clear, white eye, is truly superb. Pkt. 10c., 1/4oz. 25c.

TRITOMA uvaria grandiflora (Red-Hot-Poker Plant). Hardy perennial. Flowers scarlet, orange and yellow, on a very prominent spike. September. 4 feet..... Pkt. \$0 10

Express. New. Similar to above, but throws up its flowers as early as June and continues till frost..... 20

May Queen. New. Hardy perennial. Bright yellow flowers appear continuously from June till frost. The best sort in cultivation. 2 feet. June to October..... 25

TROLLIUS Caucasicus (Orange Globe). A beautiful hardy perennial, with large, double, deep yellow flowers. 1 foot..... 25

Europæus (Double Buttercup). Hardy perennial, with very large, yellow, globular flowers from May to August..... 10

Japonicus (Giant Double Buttercup). One of our best yellow-flowering hardy perennials; flowers large. June and July..... 25



SWEET WILLIAM (*Dianthus barbatus*)

VALERIAN (Garden Heliotrope). Hardy perennial. Pinnate foliage and panicles of flowers, with odor of heliotrope. 5 feet. June and July.

	Pkt.	Oz.
Red.....	\$0 10	\$0 50
White.....	10	50
Mixed.....	05	30

MAMMOTH VERBENAS

We have been carefully selecting and improving this fine strain of Verbenas for years, and can recommend it as the very best procurable. The trusses and individual flowers are of the largest size, of brilliant colors, free-blooming and of vigorous habit. For best and quickest results seed should be sown early in the house or hotbed, and transplanted to flowering quarters in May. If sown outdoors in May, it blooms from the end of July on. Verbenas are better grown from seed than from cuttings, being more vigorous and not liable to disease.

	Pkt.	Oz.
S. & W. Co.'s Mammoth Defiance. Scarlet.....	\$0 10	\$2 00
S. & W. Co.'s Mammoth Blue. Deep blue.....	10	2 00
S. & W. Co.'s Mammoth Pink. Deep pink.....	10	2 00
S. & W. Co.'s Mammoth White. Pure white.....	10	2 00
S. & W. Co.'s Mammoth Mixed. Finest colors.....	10	2 00

COLLECTION. One pkt. each of 4 Mammoth Verbenas, \$0 30

MIXED. This mixture does not have flowers quite so large as our Mammoth strain, but all colors are well represented..... Pkt. \$0 05 Oz. \$1 00

VARIOUS VERBENAS

Lemon Verbena (*Aloysia citriodora*). Every garden should have a few plants of this fragrant favorite. Its pale green, delightfully scented foliage goes well with any flower..... \$0 10

Erinoides (Moss Verbena). This lovely variety produces a mass of moss-like foliage, spreading over the ground like a carpet, above which are borne heads of purplish blue and white blossoms in lavish profusion; comes into flower in June, and continues until frost. For beds, baskets or rockeries it is highly desirable..... 10

Venosa (Hardy Garden Verbena). This variety is largely used for bedding purposes. It is a strong, thrifty grower, about 1 foot high, and covered from early summer until late fall with its bright heliotrope-purple flowers. 1/4oz. 20 cts... 05



S. & W. CO.'S MAMMOTH VERBENA

Vinca (Madagascar Periwinkle, or Old Maid)

Ornamental, free-blooming plants and one of the most satisfactory flowering bedding plants we have. It is best to start the seed early indoors or in a hotbed, but they begin blooming in August from seed sown out-of-doors in May, or as soon as the ground is warm, continuing until frost; or they may be potted and kept in bloom through the winter; a fine cut-flower, every bud opening when placed in water. 2 feet.

	Pkt.	Oz.
Alba. Pure white.....	\$0 10	\$1 00
Rosea. Rose.....	10	1 00
Rosea alba. White, with rosy eye.....	10	1 00
Mixed	10	75
VERONICA spicata. An elegant hardy border plant, growing about 1½ feet high, bearing all summer spikes of bright blue flowers, which lengthen with age.....	\$0 10	
Spicata alba. White.....	10	
Spicata rosea. Pink.....	10	
Spicata, Mixed	10	

Viola (Tufted Pansies)

While the flowers of Tufted Pansies are not so large as the regular type, yet they bloom so freely that they are superior to Pansies where effect is wanted, the colors being particularly clear and distinct, they also bloom for a longer time. Seed sown in April produces flowering plants in June, and from then on until frost they are a sheet of bloom.

	Pkt.	Oz.
Cornuta, Admiration. Large; dark blue.....	\$0 25	
" Purple Queen	10	\$3 00
" Mauve Queen	10	3 00
" alba. White.....	10	2 50
" Papilio. Blue, with dark eye.....	10	2 50
" Perfection. Light blue; large-flowered.....	10	2 50
" Yellow	10	3 00

VIOLET (*Viola odorata*). Single Sweet Violet. Pkt. 10 cts.

WAHLENBERGIA grandiflora (Chinese Bellflower; Platycodon). A superb hardy perennial, bearing a profusion of large, bell-shaped flowers from June to October. 2 to 3 feet. Pkt. Oz.

	Pkt.	Oz.
Grandiflora alba. White.....	\$0 10	\$0 75
" Blue	10	75
" cerulea plena. Dark blue.....	10	75
" nana (<i>Mariesi</i>). Dark blue.....	10	75



GIANT DOUBLE-FLOWERING ZINNIA

VIRGINIAN STOCK. Sown early, these pretty annuals are gay in the period between the spring and summer flowers, their fresh, bright colors in lines and beds producing a charming effect. May be sown like sweet alyssum; excellent for the border. **White, Rose, Crimson or Mixed.** Pkt. 5 cts., oz. 30c.

Wallflower

These half-hardy perennial and annual Wallflowers are grown for early spring bedding and are delicious for their fragrance. Perennial sorts should be sown in autumn and carried over in coldframe; annual sorts may be sown indoors in March and will flower the first year from seed.

	Pkt.
Early Parisian. Golden, shaded orange-red.....	\$0 10
" Blood-Red. Red, orange shaded.....	10
" Golden Gem. Yellow.....	10
" Finest Mixed	10
Single Perennial, Mixed. A mixture of all shades of this delightful flower.....	10
Double Perennial, Mixed	15

Winter-blooming Wallflower (*Cheiranthus Kewensis*). A beautiful shade of yellow on opening of flower, gradually changing to orange or purple-violet..... 25

ZINNIA (Youth and Old Age)

The seed may be sown in a hotbed or sunny window and transplanted, or sown later in the open ground. The plants come into flower early in the summer and keep on blooming until hard frost.

Giant Double-Flowering

This Zinnia, featured also in the novelty section of our catalogue, is a wonderful improvement over the Tall Double-flowering for size of flower and general vigor of the plant. Trials of this Zinnia sowed in the open ground in April produced flowers 6 inches in diameter on plants 2 to 2½ feet high. A splendid companion to our Giant Double African Marigold listed on page 59 of this catalogue. If sown in the open ground in April, thin out as soon as the plants are well up, leaving at least 18 inches each way, as they are robust growers, and require a large amount of space to attain maximum size.

	Pkt.	Oz.
Tall Giant Double, White	\$0 25	\$2 00
" " Rose	25	2 00
" " Crimson	25	2 00
" " Yellow	25	2 00
" " Purple	25	2 00
" " Scarlet	25	2 00
" " Mixed	25	2 00

Dwarf Double-Flowering

This type of Zinnia, while not so tall as our Giant Double-flowering varieties, offered above, is a very satisfactory type for borders or cutting. Grows about 1½ feet high; flowers perfect.

	Pkt.	Oz.
Crimson	\$0 05	\$0 75
Purple	05	75
Golden	05	75
Lemon-Yellow	05	75
Salmon-Rose	05	75
Scarlet	05	75
White	05	75
Mixed	05	50

Tall Double-flowering Mixed. This Zinnia is similar in height and form of plant to our Giant Double-flowering except the flowers which are about two-thirds the size. Pkt. 10 cts., oz. \$1.

Curled and Crested. Large, double flowers, with petals twisted, curled and crested into the most fantastic and graceful forms. Usual range of colors. Pkt. 10 cts.

Striped, or Zebra. Large, double flowers of orange, crimson, pink, yellow, white, etc., striped and blotched with different colors. Mixed colors. Pkt. 10 cts.

Zinnia, Lilliput

This variety forms a bush about 1 foot high, and is covered with small, very double flowers in profusion.

	Pkt.	¼oz.		Pkt.	¼oz.
Scarlet Gem	\$0 10	\$0 25	Orange Gem	\$0 10	\$0 25
Golden Gem	10	25	White Gem	10	25
Lilac Gem	10	25	Finest Mixed	10	25

Ornamental Grasses

The annual varieties are principally grown for their beautiful flower panicles which when dried are very useful for bouquet work. Perennial varieties are very valuable for borders or massed between shrubs or on the open lawn. Many of the varieties listed below have beautiful variegated foliage and, when planted as indicated above, they are most effective and pleasing.

Annuals, except where otherwise stated. Sow outside in May, transplant or thin out when large enough to handle. If grasses are cut before they are ripe, they will keep for a long period.



A bed of Ornamental Grasses

AGROSTIS nebulosa. Annual. A very beautiful variety. Pkt. 10 cts.

Pulohella. A very striking sort. Pkt. 10 cts.

ANTHOXANTHUM gracile. Annual. Useful for edging. Pkt. 10 cts.

BRIZA compacta. Very pretty annual. 18 inches. Pkt. 10 cts.

Geniculata. Very pretty annual. 18 inches. Pkt. 5 cts., oz. 40c.

Gracilis. Very pretty annual for bouquets. 12 inches. Pkt. 5 cts.

Maxima. Considered by many to be one of the best varieties for bouquet and dried flowers. Annual. 12 inches. Pkt. 10 cts., oz. 50 cts.

BROMUS brizaeformis. Large drooping panicles, useful for bouquets. Annual. 2 feet. Pkt. 10 cts.

COIX lachryma (Job's Tears). A strong broad-leaved grass with large shining pearly seeds. Annual. 3 feet. Pkt. 5 cts.

ERIANTHUS Ravennae. A hardy perennial grass resembling the Pampas, with beautiful foliage and fine silvery plumes; excellent for lawn specimens. Blooms first year from seed if sown early. Pkt. 10 cts.

COLLECTION: 12 distinct varieties of Ornamental Grasses.....\$1 00
6 distinct varieties of Ornamental Grasses.....50

LAGURUS ovatus. Hardy annual, with silvery gray tufts. 1 foot. Pkt. 10 cts.

PENNISETUM longistylum. An annual grass with gracefully drooping heads. 2 feet. Pkt. 10 cts.

Ruppellianum. The foliage is long and slender, gracefully curved and glossy deep green in color. If sown in March in heat, the plants should bloom by the middle of July, and the silvery plumes, tinted with violet-purple, waving in the sunlight, are exquisitely beautiful; hardy perennial. 3 feet. Pkt. 10 cts.

STIPA elegantissima. Perennial. Pkt. 10 cts.

Pennata (Feather Grass). With silvery white feathery plumes. Pkt. 10 cts.

SETARIA macrochaeta. Drooping plumes of graceful appearance. Annual. Pkt. 10 cts.

UNIOLA latifolia. Perennial; very pretty. Pkt. 10 cts.

ZEJA Japonica. Striped maize. Pkt. 10 cts.

TALL. Annual Varieties, Mixed. Pkt. 5 cts.

DWARF. Annual Varieties, Mixed. Pkt. 5 cts.

ERAGROSTIS elegans (Love Grass). Annual. 1 foot. Pkt. 10 cts.

EULALIA Japonica foliis vitatis. A very beautiful perennial variety used for forming large clumps. Leaves dark green, striped white. 4 feet. Pkt. 10 cts.

Zebrina (Zebra Grass). A very striking variety, very extensively used, where an attractive variegated variety is wanted. 4 feet. Pkt. 10 cts.

GYNERIUM argenteum (Pampas Grass). Perennial, with magnificent silvery plumes. 6 feet. Pkt. 10 cts.

Jubatum. Panicles silvery rose. Pkt. 10 cts.

HORDEUM jubatum (Squirrel Tail Grass). Annual, used for bouquets. 2 feet. Pkt. 10 cts.

ISOLEPIS gracilis. Graceful dwarf grass for pots. Pkt. 10c.

Everlasting Flowers

The following list of Everlastings are annuals, except where noted. Sow outside in May and thin out to six inches.

ACROCLINIUM. Hardy annual. Good for cutting. Double White, Double Pink, Single Rose and Double Mixed. Each, pkt. 5 cts.

GLOBE AMARANTH (Gomphrena). Sometimes called "Bachelor's Buttons." Popular bedding plants; flowers resemble clover heads and can be dried and used in winter bouquets. Rose, White, Purple and Mixed. Each, pkt. 5 cts., oz. 30 cts.

HELICHRYSUM (Straw Flower). One of the best and most popular of the "Everlastings." Very effective double flowers, making a fine display in beds or borders. To produce excellent plants thin out to 2 feet.

Monstrosum. Double Yellow, White, Rose, Scarlet and Mixed. Each, pkt. 10 cts.

RHODANTHE. Very beautiful, delicate looking "Everlastings," much prized for winter bouquets.

Maculata. Single White, Rose and Mixed. Each, pkt. 10 cts.

STATICE (Sea Lavender). Splendid hardy perennials, either for the border or rockery, producing all summer panicles of minute flowers, which can be dried and used for winter bouquets. Mixed varieties. Pkt. 10 cts.

XERANTHEMUM annuum (Immortelle). Grows about 3 feet high, and can be sown in the open ground early in May, growing readily in any open, sunny position, remaining in bloom from early summer until frost, bearing in abundance. Rose, Purple, White and Mixed. Each, pkt. 10 cts.

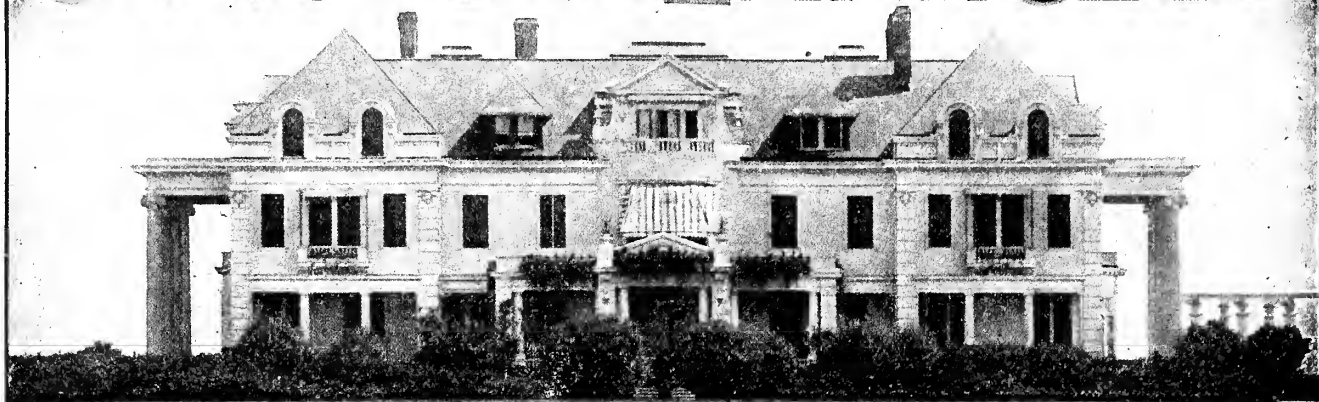
Ornamental Beets

Beets that have no tubers, but with handsome ornamental foliage of very rich colors. Very effective in center of beds, or anywhere in contrast with other plants.

BRAZILIAN. Golden-leaved, scarlet-veined and crimson-veined. Pkt. 5 cts., oz. 25 cts.

DELL'S CRIMSON. A small, compact-growing variety, with deep bronze-purple foliage. Pkt. 10 cts., oz. 25 cts.

STAIGREEN LAWN SEED



HOW ABOUT YOUR LAWN ?

25-Pound versus 14-Pound LAWN SEED

Many low-price Grass Seed mixtures weigh only 14 pounds per bushel. This indicates either a good proportion of chaff or some of the real good varieties in the rough state, not properly cleansed so as to leave only the vital part and less of the chaff or shell.

In other words, so many less seeds to the quart or pound that will germinate and grow real grass.

Why Not Buy the Re-cleaned Kind?

A mixture of grasses weighing 25 pounds per bushel, of high germination and purity, permanent in nature, the varieties carefully proportioned so that they will succeed one another in brightness of foliage, with the result that the lawn, even in its first year, will have a bright, rich green color from early spring until covered by snow.

Stumpp & Walter Co

One Pound will Sow a
Plot 20 x 20 feet
Sow 80 Pounds to the
Acre

30 and 32 Barclay St.
New York

NOT HOW CHEAP, BUT HOW GOOD



DELIVERED ANYWHERE IN UNITED STATES

Pound	5 Pounds	25 Pounds	100 Pounds
40 cts.	\$1.75	\$8.00	\$30.00

DELIVERED ANYWHERE IN UNITED STATES



"HOW TO BUILD A PERMANENT LAWN"
PAMPHLET FREE IN EVERY BAG

Grass Seed ^{SPECIAL MIXTURES} for Various Situations

The following mixtures are prepared for various situations. Each mixture is prepared with a thorough understanding of the grasses best suited for its purpose.

High-Grade Lawn Seed

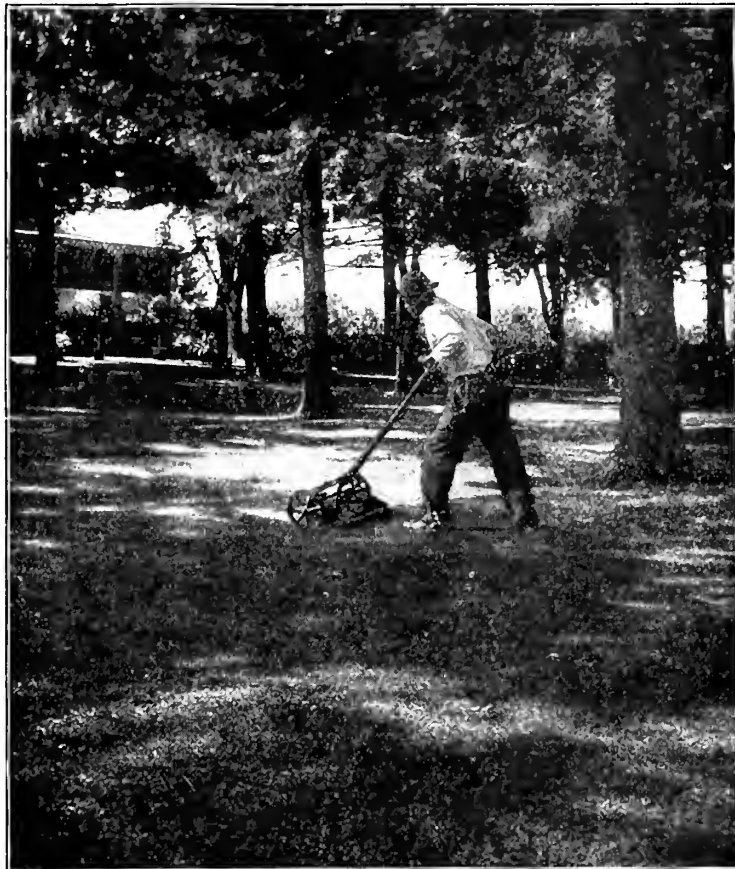
FOR GENERAL LAWN PURPOSES

Our High-Grade Lawn Seed is composed of the finest re-cleaned grasses, care being taken to include various varieties of grasses of the highest purity and germination, best suited for the lawn.

The varieties are carefully proportioned so that they will succeed one another and give the lawn that much-desired green, velvety appearance throughout the summer. The remarkably heavy demand for our lawn seed this past year proves the quality.

One quart will sow 15 x 15 feet, or 225 square feet; four bushels to the acre—for renovating old lawns, two bushels. **Qt. 25 cts., 4 qts. 85 cts., 8 qts. \$1.50, bus. \$5, 10 bus. \$15.**

Weights 22 pounds per bushel



S. & W. Co.'s Shady Place Lawn Seed

Terrace Sod Lawn Seed

FOR TERRACES, HILLSIDES AND EMBANKMENTS

To Grass a Bank or Terrace. For each square rod take two quarts of lawn grass seed and mix it thoroughly with 6 cubic feet of good, dry garden loam. Place it in a tub, and add liquid manure, diluted with about two-thirds of water, so as to bring the whole to the consistency of mortar. The slope must be made perfectly smooth, and then well watered, after which the paste should be applied, and made as even and thin as possible.

A special mixture of grasses best suited for sowing on terraces and side-hills—grasses that produce strong, spreading roots, thus preventing heavy rains from washing them out, that will withstand drought and exposure, thrive on shallow soils, and at the same time produce a rich, green turf throughout the season. **Qt. 35 cts., 4 qts. \$1, 8 qts. \$1.75, bus. (20 lbs.) \$6.**



S. & W. CO.'S TENNIS COURT GRASS SEED

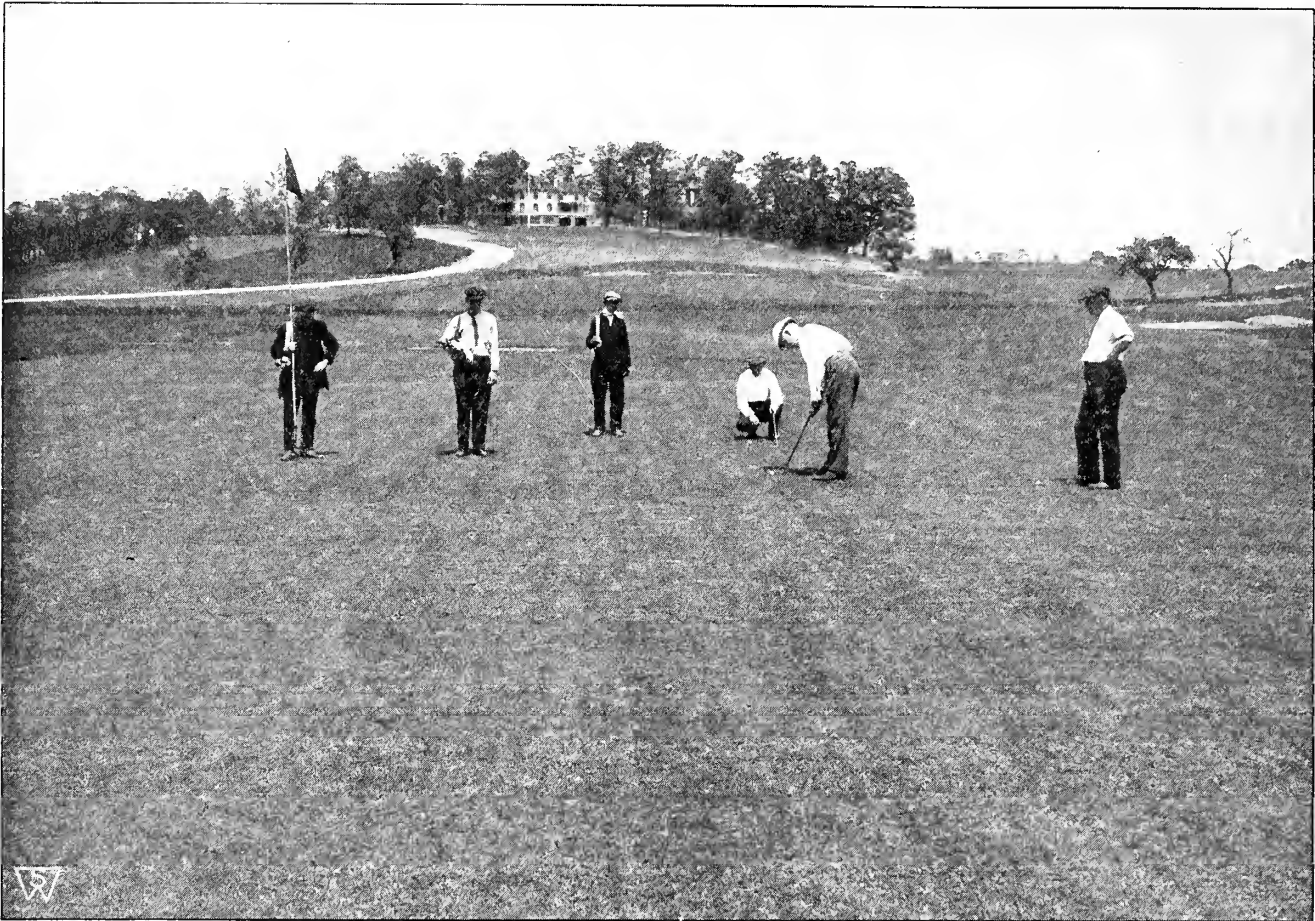
S. & W. Co.'s Tennis-Court Grass Seed

Shady Place Lawn Seed

There is nothing more annoying in caring for a lawn than the bare, unlighted spots under the trees, shrubs, etc., and invariably all efforts have failed to get the grass to grow in such places; but, by sowing this mixture, the difficulties will be overcome. It is a combination of dwarf-growing varieties which do well in all shaded places, being found in their natural state in woods and other sheltered spots. **Qt. 35 cts., 4 qts. \$1, 8 qts. \$1.75, bus. (20 lbs.) \$6.**

Tennis-Court Grass Seed

Our Tennis-Court Grass Seed is composed of grasses best suited for making grass tennis-courts, croquet-grounds or bowling-greens. The turf required for these must be firm and yet elastic, and composed of grasses which can be mowed close and kept exceedingly dwarf. This mixture is composed of the best-known, fine-leaved, deep-rooting grasses, properly proportioned so as to give an even playing surface throughout the year. It is advisable to sow at least twice the quantity as for ordinary lawn purposes, of these fine-leaved grasses in order to obtain proper playing turf. One quart to 100 square feet is advisable on new seeding, and where bowling greens are desired, or several courts are to be made, it is advisable to consult us, and we will be glad to suggest special formulas to suit soil and locations. **Qt. 30 cts., 4 qts. \$1.10, 8 qts. \$2, bus. (25 lbs.) \$7.50, 10 bus. (250 lbs.) \$75.**



Tenth Green of the Arcola Country Club, New Jersey

Accomplished by the sowing of the proper varieties of grasses in a mixture of seed of known purity and germination, the varieties carefully proportioned to suit climatic and soil conditions

Grasses for Golf-Courses

When you buy Grass Seed for golf-courses, either for putting-greens, fair-greens, or outlying grounds, great care must be taken to select only such seeds as will do best for the purpose.

First.—See that you get the proper varieties, for very often grasses are sometimes used that are not fit to make the proper sod. This means disappointment in appearance, and endless work in trying to rid the greens of such grasses.

Second.—The quality of the seed. This should always be bought with the known germination and purity.

Third.—If your soil is sandy, clayey, moist or dry, this all makes a difference; and where seeding is done, it is always best to have only such grasses in the mixture as will give the best satisfaction. This information can always be obtained by consulting us.

Our Grass Seed Department is second to none; we always have in great quantities such valuable Grasses as Creeping Bent, Rhode Island Bent, Red Fescue, and all other varieties of Grass Seeds that are generally used on golf-courses, whether for putting-greens, fair-greens, or outlying grounds.

Putting-Green Mixture

Composed of Creeping Bent, Rhode Island Bent, Red Top Re-cleaned, Fine-leaved Sheep Fescue, all of the very highest purity and germination. If for new work, or where the entire seeding of all greens is required, it would be best to consult us and have us suggest the formula for the soil and location. Lb. 50 cts., 5 lbs. \$2, 25 lbs. \$8.75, 100 lbs. \$35.

Fair-Green Mixture

The best-balanced, finest selection of Grasses that will give an even, tough and lasting turf. We can supply a general good mixture that we know will give good satisfaction; but in cases where a lot of seeding is to be done we should like to supply a special formula according to the requirements of the soil. Lb. 30 cts., 5 lbs. \$1.40, 25 lbs. \$6.50, 100 lbs. \$25.



GRASS MIXTURES FOR HAY AND PERMANENT PASTURE

For every different kind and condition of soil there are a large number of grasses, either indigenous or introduced, which are especially suitable. Some sorts do best on high ground and in dry weather; others prefer plenty of moisture. Some mature so early and others so late that from the beginning of spring until winter sets in there is no time when one species or another is not at its best. From these considerations, the importance of sowing many varieties for pasture and meadow purposes will be apparent, consisting of the following varieties: Orchard Grass, Meadow Foxtail, Sheep's Fescue, Rhode Island or Creeping Bent, Hard Fescue, Sweet-scented Vernal (True Perennial), Meadow Fescue, English Rye Grass, Italian Rye Grass, Red Top, Timothy, Red and Alsike Clover, blended in proportions which we have found, from actual use, give the most satisfactory results.

On ordinarily fertile soil 80 pounds of this mixture are sufficient to seed an acre, but where the land is poor a larger quantity will be necessary.

For Hay and Permanent Pasture for Light Soils.

For Hay and Permanent Pasture for Medium Soils.

For Hay and Permanent Pasture for Heavy Soils.

For Orchard and Shady Places.

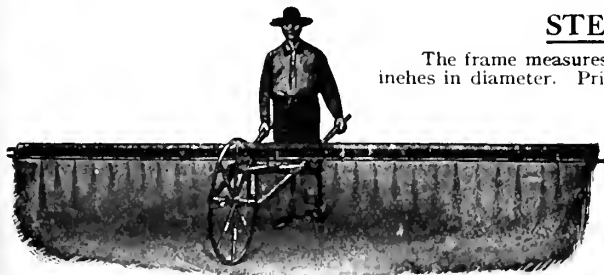
For Hay only. Specially recommended for large hay crop.

For Pasture Only. Will stand close cropping without injury.

10 lbs. \$2.50, 100 lbs. \$20

STEEL DISC SMOOTHING HARROW

The frame measures 6 feet 8 inches by 6 feet, and has four sets of rollers, having 58 discs, 8 inches in diameter. Price \$23.50; one-horse size, \$22.50.

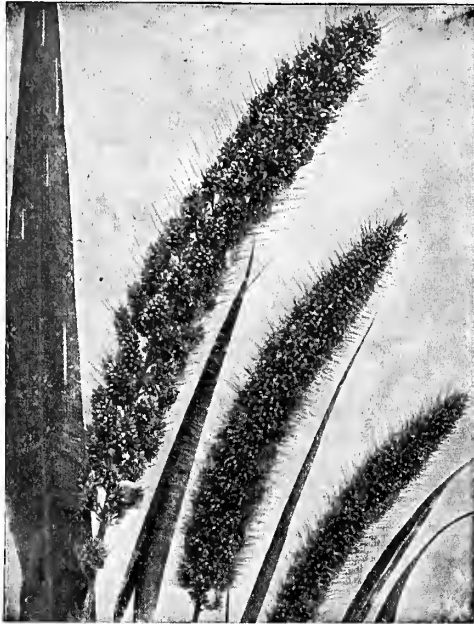


S. & W. Co.'s Wheelbarrow Grass Seeder

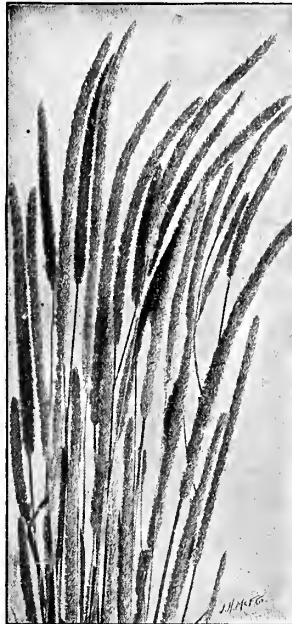
S. & W. CO.'S WHEELBARROW GRASS SEEDERS

(Weight, 45 to 50 pounds.)

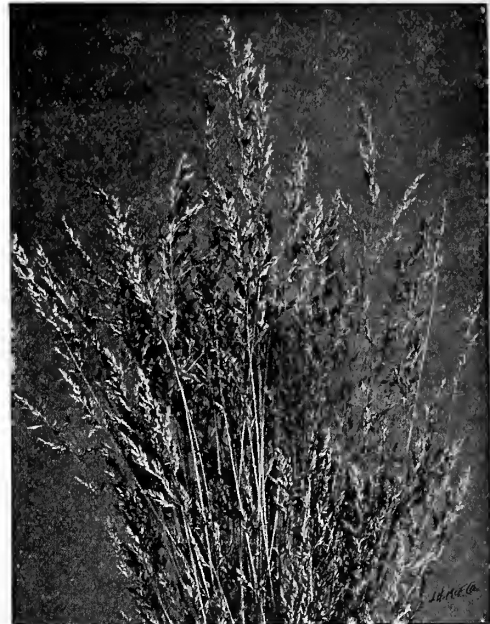
On the market over thirty years and over 200,000 sold. For sowing all kinds of grass seeds broadcast, clover, timothy, alfalfa, Hungarian millet, rape and all small seeds. Also all chaffy seeds like red top, orchard grass, and clean blue grass, bent grass, any quantity per acre desired. They are no experiment, and are guaranteed to do an even, accurate, first-class job of seeding. Price (14 feet sowing area) \$11.



Japanese or Barnyard Millet (*Panicum Crus-galli*)



Timothy (*Phleum pratense*)



Red Top, Fancy (*Agrostis vulgaris*)

GENERAL LIST OF GRASSES

	Lbs. per bus.	Per lb.	10 lbs.	100 lbs.
Bermuda Grass (<i>Cynodon dactylon</i>). Valuable in the South for lawns.	36	\$0 90	\$8 00	\$70 00
Canadian Blue Grass. Resembles somewhat the Kentucky Blue Grass, but is not of so good quality. It is grown very extensively in Canada and some parts of the United States. It will thrive even on hard clay soils and, having an extended root development, forms a heavy turf. Grows from 1 to 2 feet high.	18	20	1 75	15 00
Creeping Bent (True) (<i>Agrostis stolonifera</i>). This is our very best grass for putting-greens, being hardy, and the creeping habit of its roots, constantly adding to the size of the plant, forms the closest mat, will stand severe rolling and constant cutting. Should be in all lawn mixtures, but on account of its very high price, is rarely used. Our seed of this very valuable grass is of the highest germination and purity. (Only American-grown seed is offered this season.)	20	50	4 50	40 00
Crested Dog's-tail (<i>Cynosurus cristatus</i>). An excellent grass for hard, dry soils; valuable for lawns in mixture.	30	35	3 25	30 00
English Rye (<i>Lolium perenne</i>). This grass is considered invaluable for permanent pastures. It produces an abundance of remarkably fine foliage, tillers out close to the ground and soon forms a compact sward. After being cut it grows up in a very short time and remains bright and green throughout the season; it should be used where quick growth is desired, but not entirely where a fine work is required. It is also a good variety for hay if cut when in blossom, as it is then most nutritious; if cut much later, it becomes woody. It flourishes best in situations not too dry or subject to droughts. Sow (if alone) $2\frac{1}{2}$ to 3 bushels per acre.	24	20	1 50	12 00
English Rye (<i>Lolium perenne</i>). Pacey's Strain. Used the same as English Rye, but the seed is shorter-grained, and claimed by some to be more hardy than English Rye.	24	20	1 75	15 00
Fine-leaved Sheep Fescue (<i>Festuca ovina angustifolia</i>). A very good grass to go in mixtures for lawns. Inclined to burn the first season, but soon recovers and makes a very good turf the second year.	NONE TO OFFER THIS SEASON			
Hard Fescue (<i>Festuca duriuscula</i>). A good grass for lawns and grazing pastures, where the soil is poor and dry.	NONE TO OFFER THIS SEASON			
Italian Rye (<i>Lolium Italicum</i>). For quick growth and to assist other grasses during the first year; used in pasture mixtures in small quantities only.	22	20	1 50	12 00
Kentucky Blue Grass. This makes the best, sweetest and most nutritious pasture for all kinds of stock. Kentucky has long been famous for its high-bred horses and its Blue Grass pastures. It is now possible to establish on almost any farm a Blue Grass pasture of greenest verdure which will give very profitable returns. This grass is the first to start up in the spring and remains green until snow flies in the fall. It is very hardy and is uninjured by cold or dry weather, hot sun or trampling of hoofs. The roots are so thick and stout that they form a tough sod. Blue Grass requires about two years to get well started and for that reason it is often sown in mixture with other grasses. It will do well on almost any land. Sometimes called "June Grass."	23	30	2 50	22 00

Prices on Grass and Clover seed subject to change without notice. Our Grass and Clover seeds are the very finest, purest re-cleaned seeds. We do not carry the cheaper grades

GENERAL LIST OF GRASSES, continued

	Lbs. per bus.	Per lb.	10 lbs.	100 lbs.
Meadow Fescue (<i>Festuca pratensis</i>). One of the best grasses for permanent pastures; yields an abundance of fodder of great nutritive value. Much liked by all kinds of stock.....	27	\$0 35	\$3 00	\$25 00
Meadow Foxtail (<i>Alopecurus pratensis</i>). One of the most valuable varieties for permanent pastures.	10	70	6 00	50 00
Orchard Grass (<i>Dactylis glomerata</i>). A valuable grass for shaded pastures, and should be in all pasture and hay mixtures.....	14	40	3 50	30 00
Red Fescue (<i>Festuca rubra</i>). New Zealand-grown. A partly creeping, tuft-forming grass; it thrives on all sorts of soil, even on dry, sandy bottoms, and forms a rather thickly covered turf, leaving very little room for weeds to come through. It is also valuable for shady places in lawns, and has been found to do well under the shade of pine trees.....	27	50	4 50	40 00
Red Top Fancy (<i>Agrostis vulgaris</i>). Also known as English Bent. This grass, while being valuable as a lawn grass, is not so permanent as the preceding two varieties. Very often sold as Creeping and Rhode Island Bent by dealers who have not given the proper study to and interest in the different varieties. Our seed weighs 36 lbs. to the measured bushel, and has a purity of 95 per cent, and germination of 97 per cent, the very highest quality.....	36	35	3 00	25 00
Red Top, Unhulled (<i>Agrostis vulgaris</i>). Choice. This seed is the same as the preceding variety, but is the natural seed as harvested, without being machined to remove the hulls, and is recommended for large seedings and mixtures. This seed rarely germinates more than 60 per cent, and our stock is always of the very highest quality.....	16	20	1 50	12 00
Rhode Island Bent (<i>Agrostis canina</i>). Except that this variety is of a more tuft-forming habit, it is very similar to the Creeping Bent. It is very difficult to find true Canina, and very often the ordinary Red Top is used for it. <i>Owing to no seed being exported from Europe this year, we are offering American-grown.</i>	18	60	5 50	50 00
Rough-stalked Meadow Grass (<i>Poa trivialis</i>). One of the best grasses for hay and permanent pasture mixtures.....	26	70	6 50	60 00
Sheep, or English Fescue (<i>Festuca ovina</i>). For good upland or dry pastures, a large portion of this grass should be included in the mixture, especially if it is used for sheep grazing, as it is greatly relished by them. <i>We are unable to offer any seed of this variety this year</i>	NONE TO OFFER THIS SEASON			
Sweet Vernal, True (<i>Anthoxanthum odoratum</i>). For field mixtures.....	10	90	8 00	75 00
Tall Fescue (<i>Festuca elatior</i>). True Rhenish. It is one of the most valuable grasses to go in mixtures for hay.....	22	40	3 50	30 00
Tall Oat Grass (<i>Avena elatior</i>). A valuable grass for hay and permanent pasture mixtures.....	14	35	3 00	25 00
Timothy . As a crop for hay, Timothy is probably unsurpassed by any other grass. It is greatly relished by all kinds of stock, especially horses. It yields more nutritive matter than any other grass or forage plant. It is not suited for a permanent pasture as it will in the course of a few years, run out. It is, however, well adapted to early spring grazing, as it starts up quickly in the spring, and in favorable fall weather can be pastured in the autumn as well. The largest crops of hay are raised on rich land. It is not suited for light, sandy soil so well as some other grasses. The most important point in the growing of Timothy is the selection of good seed. Poor seed, besides containing weed seed, will not all grow. That which does germinate is weak and produces few stalks and seed heads.....	45	15	1 30	12 00
Various-leaved Fescue (<i>Festuca heterophylla</i>). An even, tuft-forming grass; does well on light soils. It is a very good grass for lawns, for which its fine, brush-like bottom leaves make it exceedingly fit. <i>We are unable to offer any seed of this variety this year.</i>	NONE TO OFFER THIS SEASON			
Wood Meadow Grass (<i>Poa nemoralis</i>). This grass is now classed among our good "shaded pasture grasses," and furnishes a fine, succulent and nutritive herbage which is very much relished by cattle. It is splendidly adapted for moist, shady places, and should be included in all mixtures for permanent pastures and lawns for moist soils. It is particularly valuable for lawns overshadowed by trees. It produces a much thicker growth than either <i>Poa pratensis</i> or <i>Poa trivialis</i> . Sow (if alone) 2 bushels per acre. <i>We are unable to offer any seed of this variety this year</i>	NONE TO OFFER THIS SEASON			
Yellow Oat Grass (<i>Avena flavescens</i>).....	14	1 00	9 00	85 00

SPECIAL NOTICE. The Grass Seed problem, whether applied to the farm or lawn, is one that can be rightly solved only when the grower fully takes into consideration four essential details: SEED, SOIL, LOCATION, and CLIMATE. Our Lawn Mixtures are prepared with a thorough knowledge of the grasses indigenous to most soils within 1,000 miles of New York. Our STAIGREEN is strictly our best mixture; our GOLF MIXTURES for putting-greens or fair-ways; our TERRACE SOD, SHADY PLACE, and HAY and PERMANENT PASTURE MIXTURES are composed of grasses of the highest germination and purity, and are all prepared by an expert who has made a life-study and a hobby of this particular branch of our business. Advice regarding mixtures for special locations freely given on request.

All our seeds are carefully examined as to purity and growth in our own laboratory and tested by the leading Seed Testing Station.

The percentage of purity and growth are determined before we send out any seeds of any description from our establishment, and, in comparing prices, remember that we will furnish, on application, the percentage of purity and growth. We have only seeds of the very best quality.

PRICES ON GRASS AND CLOVER SEED ARE SUBJECT TO CHANGE

Medium Red Clover

(*Trifolium pratense*)

This is regarded as the most valuable of the Clover family. It makes two crops each year. The first is usually cut when it is in blossom for hay; the last crop may be harvested for seed, cut for hay, or plowed under to add fertility to the soil. It may be sown either in the spring or fall, and if no other grasses are used, at the rate of from eight to twelve pounds to the acre, according to quality of seed used and condition of the soil. Clover adds greatly to the fertility of the land on which it is grown. It does not exhaust the soil, but enriches it. It pays always to buy the best grade of Clover seed which can be obtained. Even though the first cost is twice as much as cheaper seed, it will be found in the long run that inferior seed is the most expensive, not only on account of less hay or seed being produced from it, but from the fact that one's land becomes infested with weed seeds, which decrease the value of the land on which they are growing. Lb. 45 cts., 10 lbs. \$4, 100 lbs. \$35.

Mammoth Red Clover

(*Trifolium pratense perenne*)

Cow Grass, or Pea-Vine Clover. Grows larger and lasts longer than the preceding variety, and by some is considered superior to it for forage. Valuable for reclaiming exhausted land by plowing under as green manure. It is perennial in its character and harder than the medium. Sow 10 to 15 pounds to the acre. Extra large, plump seed. Lb. 50c., 10 lbs. \$4.50, 100 lbs. \$40.



Medium Red Clover

White Dutch Clover

(*Trifolium repens*)

The best variety for lawns, as it forms a close herbage and remains green throughout the season. Lb. 70 cts., 10 lbs. \$6.50, 100 lbs. \$60.

Alfalfa, or Lucerne

(*Medicago sativa*) Montana-grown

Montana produces a very fine grade of Alfalfa. The seed is usually exceptionally large and of high germination. Montana-grown Alfalfa is extremely hardy, and we prefer it to seed from any other locality. Our seed is obtained in those sections where plants have endured the extreme cold of winter and thrive in high altitudes. For our grade we obtain the plumpest and finest-colored seed grown. This seed is selected from the best seed produced. We shall be glad to send a sample to any one about to purchase. When writing for sample, state quantity of seed you wish to buy. The demand for Alfalfa has been increasing from year to year and our present supply of this grade probably will not nearly fill the orders we will receive for it this season. It is desirable, therefore, that orders be sent in promptly. Sow thirty pounds to the acre. Weighs sixty pounds to the bushel. Lb. 40 cts., 10 lbs. \$3.50, 100 lbs. \$30.

Alsike, or Swedish Clover

This is one of the hardiest varieties known. It is perennial and does not winter-kill. It will do better on moist land than any other variety of Clover, and is suitable for either hay or pasture. When sown with other grasses, it forms a thick undergrowth and greatly increases the yield. It is frequently sown both with Medium Red Clover and with Timothy, and the quality of hay thus produced is excellent. It is finer and more leafy than Medium Clover, although it does not grow so high. It is very fine for honey bees, and cattle prefer it to other Clovers. Lb. 40 cts., 10 lbs. \$3.75, 100 lbs. \$35.

Crimson or Scarlet Clover

(*Trifolium incarnatum*)

It can be seeded at any time from June to October, at the rate of fifteen to twenty pounds to the acre, and makes the earliest possible spring pasture, blooming the latter part of April or May, and for feeding as hay, should be cut just before coming into full bloom. Sow Crimson Clover at the last working of all crops, like beans, corn, melons, cucumbers, tomatoes and other crops. Lb. 25 cts., 10 lbs. \$1.75, 100 lbs. \$15.

White Bokhara or Sweet Clover

(*Melilotus alba*)

This is sown and used quite largely in some sections as a forage, and soil-improving crop, and is particularly valuable for thin lands or to sow on hillsides that are liable to wash or gully, and it also gives the inoculation necessary for the best success with alfalfa. For feed or forage it should be cut when quite young, for when it gets old cattle do not relish it, and it is not of very high nutritive value. It is also largely used for sowing for bees.

Farmers are sowing this Clover to quite a considerable extent on light, sandy land, where other Clovers do not take well. They hope, by sowing this Bokhara Clover, to get a good growth to turn under to improve the land and also to inoculate the soil so that it will produce good crops of Crimson Clover and Alfalfa from seedlings of these to follow the Bokhara. Lb. 30 cts., 10 lbs. \$2.75, 100 lbs. \$25.

Yellow Bokhara (Biennial)

A productive and popular type of the Sweet Clover, having yellow blossoms instead of white. Lb. 30 cts., 10 lbs. \$2.75, 100 lbs. \$25.

Grimm Alfalfa

Many years ago a man named Grimm came from Germany and settled near Minneapolis. He brought with him seed of an Alfalfa which, according to a neighborhood statement, he called Norwegian Alfalfa. It became known, however, as Grimm's Alfalfa, and obtained a more than local reputation on account of its productiveness and extra hardiness, for it survived winters that killed out many fields of other varieties of Alfalfa. This variety of Alfalfa was in great demand before the Montana or Northern-grown Alfalfa seed was obtainable. There is some disagreement among investigators as to how Grimm Alfalfa obtained its hardiness; but there is no difference of opinion that it is hardy. From the appearance of the seed, this Alfalfa cannot be distinguished from other varieties; the root-system, however, is more branched. Because of this root-system, we believe it will grow well over a hardpan soil, and is adapted to a wetter soil than the other Alfalfa. We recommend 15 pounds of the seed, sown broadcast, to the acre, as its stooling habit requires less seed to be sown than other Alfalfa offered. The quantity of seed of this variety obtainable is limited and we offer it subject to being unsold.

Lb. 90 cts., postpaid; not prepaid, 10 lbs. \$7, 20 lbs. \$13, 50 lbs. \$31, 100 lbs. \$60.

Sudan Grass

An Annual Grass of the Sorghum Family which Produces Two Crops, if Sown in May, and preferred by Some to Millet

Sudan Grass belongs to the Sorghum family. It is an annual, lacking underground root-stalks. Two cuttings can be obtained under favorable conditions. The yield varies from one to eight tons of cured hay to the acre.

Sudan Grass makes its heaviest yield on a rich loam, but it has been grown successfully on almost every class of soil, from heavy clay to light sand. The ground should be firm and well drained.

Sow Sudan Grass after the soil has become warm, about corn-planting time. **Sow thirty to forty pounds to the acre, broadcast, about May 1.** It may be cut in July, just before heading out. This gives time for a second growth to reach the stage where it can be used for pasturage or cut for hay. Our seed has been grown in the Rocky Ford district, under irrigation, and is the finest quality obtainable, generally weighing as much as 40 pounds to the bushel.

Lb. 35 cts., postpaid; not prepaid, 10 lbs. \$3, 25 lbs. \$6.50, 100 lbs. \$25



Nitrate sacs on the roots of Cowpeas. This fertilizer value is the result of the use of Farmogerm

FARMOGERM

THE STANDARD SEED INOCULATION

To Build Up Worn Soils, Increase Crops and Reduce Fertilizer Expense

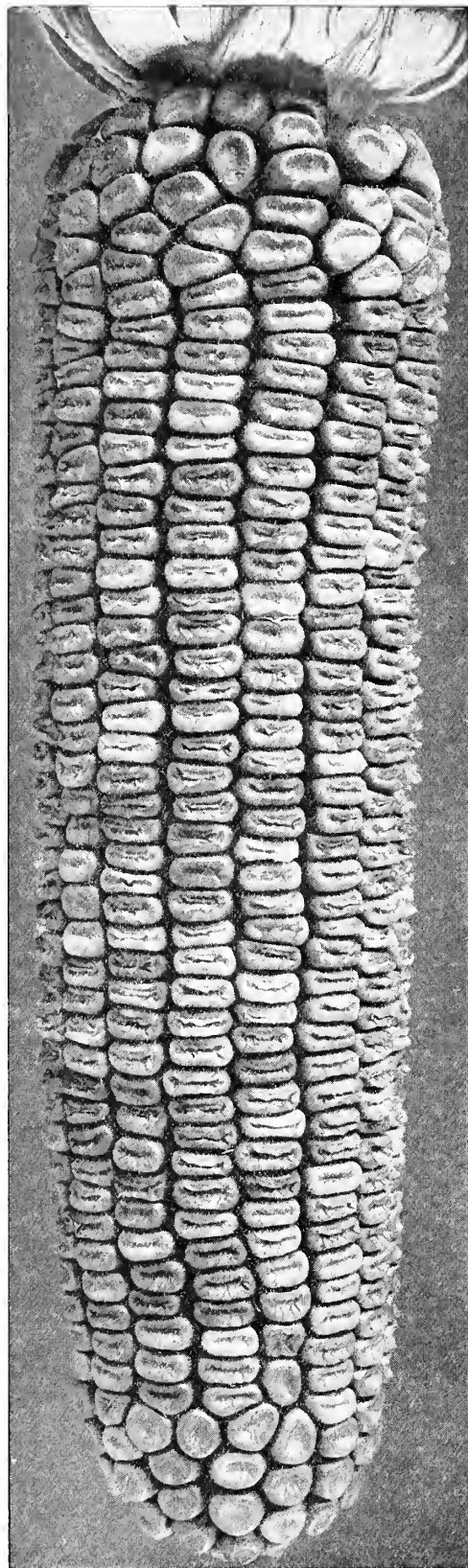
The growing of legume crops for soil-enrichment is advocated by agricultural experts and experiment stations everywhere. The great fertilizer value of legumes depends entirely upon perfect inoculation. You can secure satisfactory results only by the use of Farmogerm inoculation, which has been practically tested for years and its efficiency proved and recognized the world over.

It is delivered in bottles ready for use. The seed for ten acres can be perfectly inoculated in ten minutes. Our customers who have used Farmogerm in past years strongly endorse it, and we recommend every planter of legume seeds to

Use It On Alfalfa, Peas, Clover, Beans, Cowpeas, Vetch, Soja Beans

Not only will the crops be larger and richer, but the soil will be plentifully supplied with nitrates for next year's crops. Further particulars upon application.

Regular Farm Size, or 5-Acre	\$5 00
Farm Trial Size, or 1-Acre	1 50
Garden Size, or 1/4-acre	50



Golden Eureka Dent Corn

FIELD CORN

Sow one peck to acre
in early May

New Golden Eureka Dent Corn

This magnificent Corn is a decided improvement on the very popular variety, Eureka. It is fully ten days earlier. Ears measure 12 inches in length and contain from 18 to 22 rows of beautiful, deep yellow grains. Deep grains and very small cob. Seventy pounds of ears will yield 60½ pounds of corn. Will yield 100 bushels to the acre, having done better than this by the originator this past fall. A very fine variety for ensilage and will produce 25 tons good Corn silage per acre. Selected grains, qt. 25 cts., postpaid, 40 cts.; pk. \$1.25, bus. \$3.50, 10-bus. lots \$3.25 per bus.

Longfellow Flint Corn

This beautiful eight-rowed Flint often yields two good ears to the stalk. The ears are very long, sometimes reaching the length of 15 inches. Cobs are small, with kernels of good size. It is safe for planting as far north as Massachusetts. Our stock of seed is of the best possible selection and has given a yield, this past season, of over 100 bushels to the acre. Selected stock, qt. 25 cts., postpaid, 40 cts.; pk. \$1, bus. \$3, 10-bus. lots \$2.75 per bus.

Wood's Northern White Dent. The earliest large White Dent Corn; ripens thoroughly around New York and vicinity. Very prolific, often yielding 100 bushels shelled corn to the acre. Ears 12 inches long and 7 or 8 inches in circumference. The kernels are long and the cob is small; ears start 2 to 3 feet from the ground; plant leafy and luxuriant, making fine fodder. Our grower, on Long Island, who raises our crop of this, the best of all the White Dent Corns, states that it is the best and most profitable Corn he has ever grown. Qt. 25 cts., pk. \$1, bus. \$3, 10-bus. lots \$2.75 per bus.

S. & W. Co.'s White Flint. We have had many inquiries in the past for a White Flint, but have never before been able to offer it, as it has always been a difficult matter to get hold of good seed. The ears are very long, 12 to 15 inches, of handsome appearance, with large kernels of a transparent white. The stalks are very leafy and the Corn is also very productive, with usually two or three ears on a stalk. Qt. 25 cts., pk. \$1, bus. \$3, 10-bus. lots \$2.75 per bus.

Improved Leaming. This popular and distinct variety of Yellow Dent Corn certainly has, beyond question, reached the grandest success of any Yellow Dent Corn that has ever been brought before the farming public. This Corn husks and shells very easily, and weighs 60 to 62 pounds per measured bushel, and matures in 90 to 120 days. Qt. 25 cts., pk. \$1, bus. \$3, 10-bus. lots \$2.75 per bus.

Improved Early Horsetooth. Same as Southern Horsetooth, but better selected and earlier. Qt. 20 cts., bus. \$2.25, 10-bus. lots \$2 per bus.

Evergreen Fodder Corn. For soiling or ensilage. Profitable as green fodder; cut when green to feed cattle. Sow broadcast two bushels. In drills 3 feet apart, one bushel per acre. Market price.

Pride of the North. The very earliest Yellow Dent Field Corn in cultivation, and can be successfully grown farther north than any other Dent variety. Ripens readily even in New England. Matures perfectly in 90 days and is very frequently safe from frost in 75 days. Very hardy, ears of uniform size; too small for a main crop, but right size for stock-feeding; cob small, kernels set closely on cob and are long and compact. This variety is planted quite largely for early crop to feed stock while yet green; and is also planted late when larger varieties could not possibly mature before the frosts. Qt. 25 cts., pk. \$1, bus. \$3.

Pop Corn

There are two distinct types of Pop Corn, Rice and Pearl. The White Rice is usually grown for commercial purposes, about four pounds being required to plant an acre. Hardy from Canada south. If desired by mail, add 8 cts. per lb.

White Pearl. Smooth-grained ears, 4 to 5 inches long, by 7/8 to 1 1/8 inches in diameter; good for either family or market use. Lb. 10 cts., 100 lbs. \$8.

White Rice (Rat-tooth). A very fine white variety; ears 4 to 5 inches in length, and 1 to 1 1/2 inches in diameter. Kernel pointed. Lb. 10 cts., 100 lbs. \$8.

Kaffir Corn

Selected for
Seed

Excellent forage for horses and cattle, and excellent food for poultry. Use 5 pounds per acre. 5 lbs. 75 cts., bus. (60 lbs.) \$5, 100 lbs. \$8.

SOY BEANS

Soy Beans have become an important crop in only a few localities in the United States, but in cases where farmers have learned how to utilize them to best advantage they have proved to be a crop of high value. They are especially valuable for mixing with corn for silage, for the production of hay, and for use as pasture, especially for hogs. They possess an advantage over cowpeas in that the growth is erect, and they are therefore easily harvested. Some of the taller sorts may be harvested with an ordinary grain binder. They are also valuable as a crop for plowing under for green manure, to add humus and nitrogen to the soil. They can also be planted with cowpeas, on account of their erect growth. They support the vines of cowpeas.

During the past year they have been grown with success on many of the farms in New Jersey and New York. Planted the latter part of May in the latitude of New York the Beans are ready for harvesting in 100 days. Planted in rows 2½ feet apart, 6 to 8 plants to the foot of row, requiring three pecks to the acre, they yield fifteen to twenty tons of fodder.

	Qt.	Pk.	Bus.	10 bus.
Mammoth Yellow Soy Beans	\$0 20	\$1 25	\$3 50	\$30 00
Early Green Soy Beans	25	1 50	5 00	40 00

CANADA FIELD PEAS

"Peas could be made to bring more nitrogen to the soils of this country every year than is now purchased annually by the farmers at the cost of millions of dollars."—Year-book of the U. S. Department of Agriculture.

The above statement, coming as it does from a reliable source, gives the progressive farmers of this great country something to think about. Grain has been grown year after year on many farms, sapping the life and fertility of the soil. Here is a crop which is not only profitable, but will return to the land the much-needed nitrogen. Peas are second only to Clover in their soil-enriching properties and can be grown under almost any condition of soil or climate. There is always a ready market for Peas, or they can be profitably ground and fed to stock. The vines make rich, nutritious hay. If fed to milch cows, when in a green state, pods, vines and all, the flow of milk will be almost doubled.

Peas are a paying crop and can be profitably planted in many ways.

First.—When sown alone about three bushels are required to the acre. They can be matured and threshed when dry. The yield will vary from 30 to 60 bushels an acre.

Second.—Peas and oats are frequently sown together, using 1½ bushels of Peas and 2 bushels of oats to acre. By so doing a double crop can be secured. They can be threshed at one time and readily separated in cleaning.

Third.—They can be sown alone or with oats and fed green. It is surprising the amount of fodder which is produced in this way. If sown together, the Peas should be sown first and plowed under about 4 inches deep; the oats may then be drilled in.

Fourth.—For plowing under when Peas and oats are sown together and each are "in milk," they are nearly equal in value to clover, used in the same way, to enrich the soil.

Qt. 20 cts., pk. \$1.25, bus. \$4, 10 bus. \$37.50. On orders of 100 bus. or over, prices on application

COWPEAS

Used for improvement of soils by plowing under; also makes valuable hay, when sown alone or with soy beans, during May, June and July, at the rate of two bushels to acre or one bushel of soy beans and one of Cowpeas, broadcast or in a wheat drill

Black Eye. Large black-eye peas; make a profitable crop for picking the dry peas for sale in our markets during the winter. Qt. 20 cts., pk. \$1.25, bus. \$3.50, 10 bus. \$32.50.

New Era. The peas are dull lead-colored, not quite so large as Whippoorwill, but vine is somewhat stronger; earlier than other varieties. Qt. 20 cts., pk. \$1.25, bus. \$3.50, 10 bus. \$32.50.

Whippoorwill. An early, bunch-growing Pea; has brown-speckled seed. Qt. 20 cts., pk. \$1.25, bus. \$3.50, 10 bus. \$32.50.



Soy Beans

SAND or WINTER VETCH

Vicia villosa

Sometimes called Hairy Vetch. This is a very valuable forage plant, and is rapidly becoming more popular each year as the farmers of this country are learning more of its great value. It is very hardy, is valuable as a winter cover-crop to prevent leaching, and for forage and fertilizing purposes. It is an annual, but re-sows itself and will come up year after year on the same ground. It succeeds well on nearly all soils and thrives surprisingly on poor, light land, and will endure extremes of drought, heat and cold. It improves the soil, being a great nitrogen-gatherer. The roots bear innumerable nodules or nitrogen-gathering bacteria. These take the nitrogen from the air and restore it to the soil where it is so much needed. It belongs to the pea family, but the vines are much longer and the foliage is more abundant. It may be sown either in the spring or fall with about half a bushel of rye or oats for support. It grows rapidly and is particularly valuable in sections where clover does not thrive. In the North it remains green all winter under the snow, and it is invaluable for early pasturing or soiling. The Department of Agriculture estimates the value of an acre of this Vetch plowed under equal to commercial fertilizer at the rate of from \$16 to \$40 an acre. When sown in August or September it covers the ground before frost and prevents leaching of the soil during the winter and spring. When sown in April or May it can be cut in July, the second growth affording excellent pasture during the summer. The yield of green fodder is from twelve to twenty tons an acre. This may seem to be an exaggerated statement, but when the amazing stooling propensities of this plant are taken into consideration the yield is readily accounted for. As many as twenty long vines spring from each root. When raised for hay it should be left standing until some seeds have become well formed. Not only does it produce an enormous amount of very valuable feed, but it at the same time restores to the soil a great amount of fertility which is so much needed. 1 to 1½ bushels of seed required to the acre. Weighs sixty pounds per bushel. If sown alone use 1½ bushels to acre, but is best if sown with 1 bushel Vetch with ½ bushel oats, as per illustration. Lb. 25 cts., 10 lbs. \$2.25, 100 lbs. \$20; bushel (60 lbs.) \$12.



Sand or Winter Vetch and Oats Sown Together

VELVET BEAN (*Dolichos multiflora*)

Largely grown in the South and used as a fertilizing plant for turning under. Both vines and pods are eaten by live-stock, and the Beans can be ground either with or without the pods and fed instead of corn or oats, or can be mixed with them. Pk. \$1.50, bus. \$5.

DWARF ESSEX RAPE

The true Dwarf Essex Rape is valuable as a fattening food for pasturing sheep in autumn. It is particularly adapted as a "catch-crop," for it grows best late in the season. In the Northern States it can be sown at any time from May until the end of August, but in the Southern States it should not be sown until September or October, for winter pasture. Its fattening properties are said to be twice as good as clover. Sow ten to twelve pounds to the acre broadcast, or four to five pounds per acre in drills 15 inches apart. Grows vigorously. Lb. 20 cts., 10 lbs. \$1.80, 100 lbs. \$15.

SUNFLOWER, MAMMOTH RUSSIAN

Highly valued as an excellent and cheap food for fowls. It is the best egg-producing food known. It can be raised cheaper than corn. Four pounds of seed will plant an acre. Lb. 15 cts., 10 lbs. \$1.10, 100 lbs. \$10.

Spring Vetch, or Tares (*Vicia sativa*)

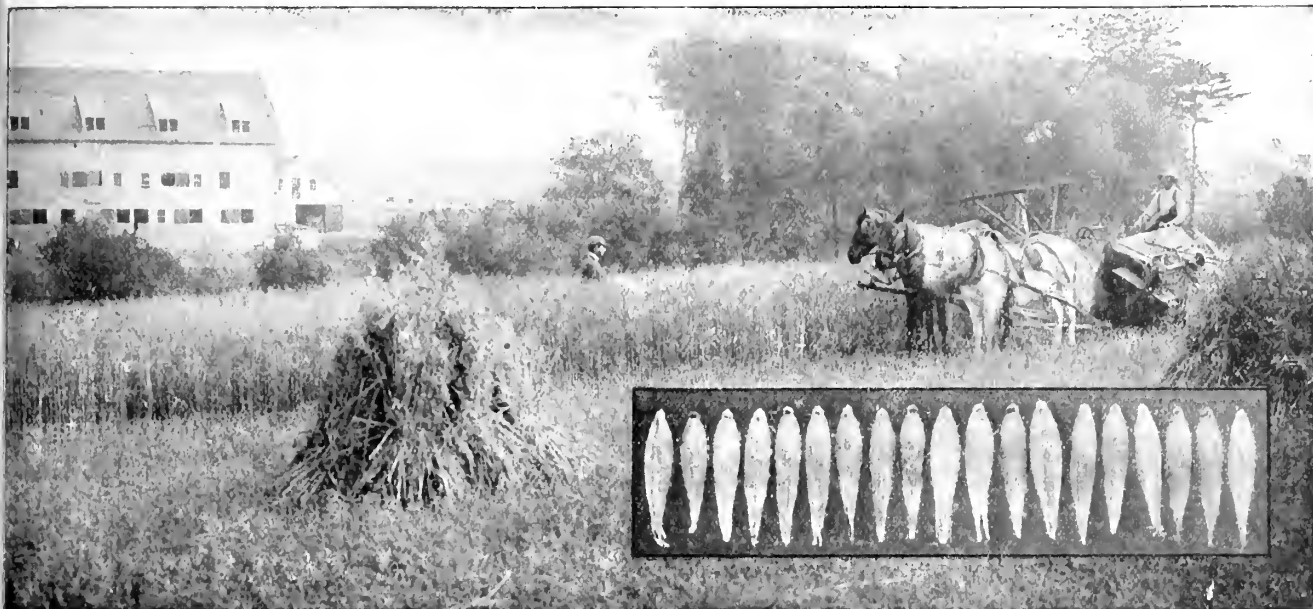
Highly valuable for soiling or for green manuring. Sometimes grown with oats for mowing and feeding to stock. Use 2 or 3 bushels to acre broadcast, or 1 to 2 bushels in drills. Lb. 20 cts., bus. of 60 lbs. \$6, 100 lbs. \$9.

EARLY AMBER CANE

Most valuable for dairy cows. The leading dairy farmers of the Northwest generally regard sugar cane, or sorghum, as the best of all fodder plants today for their purpose. Sow any time from May 15 to July 15, 12 to 15 lbs. per acre, in rows, and cultivate the same as corn. Or, if sown broadcast, use 50 lbs. per acre. Lb. 15 cts., 10 lbs. 80 cts., 100 lbs. \$6.

HUNGARIAN MILLET

For good low grounds on rich soil, this makes even a more valuable crop than German Millet. It is considered equal in nutritious qualities to timothy hay. It is very important, in procuring Hungarian Millet, to get the true seed, as common Millet resembles it very closely, and is frequently found mixed with Hungarian. This lessens both the yield and the value of the crop. Sow from the first of May to the end of July at the rate of 1 bushel per acre. Qt. 20 cts., pk. \$1, bus. \$3.50.



Field of Storm King Oats

SEED OATS

For grain, $2\frac{1}{2}$ bushels to the acre; for forage, 3 bushels, or, with Canada Peas, 1 to $1\frac{1}{2}$ bushels

Sold at the standard weight of 32 pounds to the bushel. Several varieties of Oats offered below weigh up to 50 pounds to the measured bushel, but all Oats are purchased and sold at the standard weight of 32 pounds to the bushel.

Storm King. An exceptionally fine grade of the Long's Tartar. Kernels are large and plump. The straw is long and stout, and does not easily lodge. Heads are from 8 to $10\frac{1}{2}$ inches in length. Our grower in New Jersey reported a yield of over 100 bushels to the acre. Suitable for all soils. Note size of the grains in illustration above. **1 bus. (32 lbs.) \$2, 6-bus. lots or over, \$1.90 per bus.; 25-bus. lots or over, \$1.75 per bus.**

Welcome Oats. One of the heaviest, handsomest, and most productive white varieties grown. It stools heavily, with extra-strong, straight straw standing well. Succeeds well in a wide range of climate, and under a great variety of soils and methods of culture. **Pk. 50 cts., bus. \$1.50, 10 bus. \$14, 100 bus. \$1.30 per bus.**

Alberta Prolific. Large plump fine grain; stiff straw; splendid yielder; the best general Oat. **Pk. 60 cts., bus. (32 lbs.) \$1.50, 3-bus. sack, \$4.25.** Packed in even-weight 3-bus. sacks of 96 lbs. each.

White Tartar. This is a western Oat which, when grown in the East this past year, has done remarkably well. Its yield was well in excess of the Swedish and Lincoln varieties. It is a heavy Oat, with long, stout straw, which stands up well without lodging. The heads are large; the grains are thick and very heavy, with a thin hull. Our seed is selected and grown especially for us. **Pk. 60 cts., bus. (32 lbs.) \$1.75, 10 bus. \$16, 100 bus. or over, \$1.50 per bus.**

Barley, Imported Hanua. A new variety of Barley recently introduced by the U. S. Dept. of Agriculture. It is spoken of as "the great favorite Barley among German and Austrian brewers." It is noted for its earliness and very plump kernels. It is a two-rowed Barley. Our stock is the imported extra-large grain and grown especially for seed purposes. *We are unable to offer this seed this year.*

Beardless Spring. Its straw is good for green feed or when cured, as hay. The grain in the hull is excellent poultry-feed and with the hull removed is used in the household. It is a quick-growing crop and very nutritious. Sow broadcast $1\frac{1}{2}$ to 2 bushels to the acre from May 15 to July 1. Our seed stock is carefully selected and grown especially for us in Genesee County, New York. Makes better straw than the bearded, and will yield 50 bushels of grain to the acre. **Qt. 20 cts., pk. 75 cts., bus. \$2.50.**

Buckwheat, New Japanese. This is a superior variety and more prolific, and yields double the weight per acre of other sorts. The grains are nearly twice as large as those of Silver Hull, and of fine color. This variety is always in demand, millers preferring it to all other sorts, and it makes the finest flour. Sow about the middle of June, broadcast, 3 pecks to the acre. **Pk. 75 cts., bus. \$2.50.**

Japanese Barnyard Millet. This wonderful Millet yields possibly more fodder than any other forage plant that requires so little to sow an acre. Frequently as high as 12 tons of green food has been obtained from an acre. It is somewhat coarse in texture, growing sometimes as high as 8 feet; it is, however, ideal for silo or hay purposes; if sown early in May, it may be cut twice in one season. It branches out at the roots, and more than 12 lbs. per acre broadcast cannot be sown to advantage. Sow anywhere from May 1 to June 15. **Lb. 15 cts., 10 lbs. \$1, 100 lbs. \$9.**

Spring Wheat. A desirable crop to sow where fall-sown wheat has been killed by severe winter; the grain is very hard and of excellent milling quality. Macaroni is made from this variety. Our stock is grown in the extreme Northwest and is very fine.

Saskatchewan Fife. This is the favorite sort in this locality, and is used on account of its prolific, vigorous growth and early qualities. It often produces 50 bushels per acre. Sow in April or May, $1\frac{1}{2}$ to 2 bushels per acre, broadcast or in drills. **Qt. 15 cts., pk. 90 cts., bus. \$3.**

Spring Rye. Used as a catch crop to sow where winter grain has failed. **Pk. 90 cts., bus. \$2.75, 5 bus. and over, \$2.50 per bus.**

Vegetable Roots and Plants

Artichoke Roots, Jerusalem. Used for feeding stock and pickling. Tubers resemble potatoes. Qt. 25 cts., pk. \$1.25.

Asparagus Roots. For full description, culture and prices, see page 12.

Chives. Used for flavoring. We supply large, growing clumps, 25 cts. each, \$2.50 per doz.

Horse-Radish Roots. Will produce good Horse-Radish, fit for use in one season's growth. Plant the root so that the top will be 2 inches under the ground. 15 cts. per doz., 75 cts. per 100.

Mint Plants. Selected pot-plants. Used for Mint sauce and juleps. 25 cts. each, \$2.50 per doz.

Rhubarb Roots. The roots we offer are of the Giant Crimson Winter variety. They may be planted in any good garden soil in the early spring. Divided roots, 10 cts. each, \$1 per doz.; extra-strong clumps, 25 cts. each, \$2.50 per doz.

Sweet Potato Plants. Red or Yellow variety. Ready in June. 50 cts. per 100, \$3.50 per 1,000.

Tarragon Plants. Used for seasoning. Strong pot-plants, 35 cts. each, \$3.50 per doz.

Cauliflower Plants. Cabbage Plants. Eggplant Plants.

Pepper Plants. Lettuce Plants. Tomato Plants.

Furnished during April, May and June. Prices and varieties on application.



Rhubarb

Vegetable Roots for Winter Forcing

Send for circular giving descriptions and cultural treatment

Asparagus. Extra-large clumps of Barr's Mammoth and Conover's Colossal. \$1.50 per doz., \$10 per 100, \$90 per 1,000.

Rhubarb Roots. Extra-large clumps of Giant Crimson Winter. 25 cts. each, \$2.50 per doz.

Sea Kale Roots. Extra-selected forcing crowns. 10 cts. each, \$1 per doz., \$7 per 100, \$60 per 1,000.

Witloof Chicory Roots. Extra-selected roots for forcing. 10 cts. each, \$1 per doz., \$7 per 100, \$60 per 1,000.

Aromatic, Medicinal and Pot Herbs

	Pkt.	Oz.
Anise (<i>Pimpinella Anisum</i>). Seeds aromatic and carminative.....	\$0 10	\$0 20
Arnica (<i>Arnica montana</i>). Valuable medicinal qualities.....	15	1 00
Balm (<i>Melissa officinalis</i>). For culinary purposes.....	10	30
Basil (<i>Ocimum basilicum</i>). Sweet. Culinary herb used for flavoring soups, etc.....	10	20
Bene (<i>Sesamum orientale</i>). The leaves used for dysentery.....	10	20
Borage (<i>Borago officinalis</i>). Leaves used as a salad.....	10	20
Caraway (<i>Carum Carui</i>). Used in flavoring liquors and bread.....	10	20
Catnip (<i>Nepeta cataria</i>). Has medicinal qualities.....	15	70
Chamomile (<i>Anthemis nobilis</i>). Has medicinal qualities.....	15	75
Coriander (<i>Coriandrum sativum</i>). Seeds aromatic.....	10	20
Dill (<i>Anethum graveolens</i>). Seeds used for flavoring vinegar.....	10	20
Fennel (<i>Anethum Feniculum</i>). Florence. In flavor resembling celery.....	10	25
Horehound (<i>Marrubium vulgare</i>). Has medicinal qualities.....	10	40
Hyssop (<i>Hyssopus officinalis</i>). Has medicinal qualities.....	10	40
Lavender (<i>Lavandula vera</i>). True. For oil and distilled water.....	10	50
Marjoram (<i>Origanum Majorana</i>). Sweet. Used in seasoning.....	10	30
Mint (<i>Mentha piperita</i>). Peppermint.....	25	
Rosemary (<i>Rosmarinus officinalis</i>). Yields an aromatic oil and water.....	10	50
Rue (<i>Ruta graveolens</i>). Said to have medicinal qualities.....	10	30
Saffron (<i>Carthamus tinctorius</i>). Used in medicine and also in dyeing.....	10	20
Sage (<i>Salvia officinalis</i>). Common. A culinary herb; also used in medicine.....	10	20
Savory (<i>Satureja hortensis</i>). Summer. Used as a culinary herb.....	10	20
Savory (<i>Satureja montana</i>). Winter. Used as a culinary herb.....	10	40
Tarragon (<i>Artemisia Dracunculus</i>). Does not produce seed. See Plants.....		
Thyme (<i>Thymus vulgaris</i>). Broad-leaved English. Used as a seasoning.....	10	50
Thyme (<i>Thymus vulgaris</i>). French.....	10	40
Woodruff (<i>Asperula odorata</i>).....	10	1 00
Wormwood (<i>Artemisia Absinthium</i>). Has medicinal qualities.....	10	30



Mint Lavender Summer Savory Rosemary Thyme Sage Chamomile Arnica Dill Sweet Marjoram Fennel

NEW AND CHOICE CANNAS

Dormant Canna roots may be started indoors during March or April, but should not be set out until the weather is settled and the ground warm, usually May or June in this latitude. When planting dormant roots, do not set too deep. The eye should show a little through the ground. Plant in good, rich garden soil mixed with one-half of old, rotted stable manure. Set them about 18 inches apart each way. Water sparingly the first two weeks after planting; when growing freely, water liberally.



Gladioflora, the Gladiolus-flowered Canna

Firebird. A clear, glistening scarlet; even better than King Humbert, but with green foliage. This is, by all means, the very best red-flowered, green-leaved Canna today. The flowers are borne in immense trusses, on tall stalks well above the leaves. They are of splendid form, round and shapely, the petals measuring $2\frac{1}{2}$ inches and over across, and the color is a clear glistening scarlet without any streaks, spots or blotches. 50 cts. each, \$5 per doz., \$35 per 100.

Gladioflora. Remarkable on account of the unusual shape of its flowers, which look like a gladiolus; crimson, changing to carmine-rose, with an irregular edge of gold. The bright, firm, well-formed blooms show up attractively above the neat green foliage. Height $3\frac{1}{2}$ feet. 15 cts. each, \$1.25 per doz., \$8 per 100.

Panama. The color of this Canna is an attractive, rich orange-red with a well-defined edge of bright golden yellow. The flowers are very large, the petals being almost round and of immense spread. The early, free-flowering habit and unique coloring make this Canna most noteworthy. Height 3 feet. 20 cts. each, \$2 per doz., \$15 per 100.

Hungaria. The ideal pink bedder. Flowers large, in good trusses; color not unlike that of Paul Neyron rose. One of the best of the newer introductions. Height $3\frac{1}{2}$ feet. 15 cts. each, \$1.50 per doz., \$10 per 100.

Mrs. Alfred F. Conard. A splendid new Canna. Its exquisite salmon-pink flowers are of largest size, in erect and abundantly furnished heads, so freely produced as to keep a superb showing for months above the rich green foliage. Grows 4 feet high. 15 cts. each, \$1.50 per doz., \$10 per 100.

Mrs. Carl Kelsey. Grows 6 to 7 feet high, with luxuriant foliage—green with a narrow edge of purple; erect, full heads of enormous flowers. The color is an orange-scarlet, flaked and striped with golden yellow, and the petals are wavy and edged. 15 cts. each, \$1.25 per doz., \$8 per 100.

COLLECTION: One each of six varieties, \$1

Six Good Standard Sorts

Alsace. A beautiful creamy white variety used very extensively for contrasting red and pink-flowering sorts. Height 4 feet.

Gustav Gumpfer. The finest yellow bedding Canna; flowers of good size and are held well above the foliage, the fine trusses always clean-looking; in habit of growth very uniform; color a rich golden yellow shade that has been missing heretofore and which can be seen as far as the eye will carry. Height $3\frac{1}{2}$ to 4 feet.

Gladiator. Green-leaved. A very showy bedding Canna, of medium height, with large flowers of brassy yellow, thickly speckled with dull red. The long center petals and lower petal are solid dark red, making a most striking contrast to the predominating yellow. It blooms early and keeps up a continuous succession of flowers all summer. Height 3 feet.

King Humbert. Of superlative beauty and by far the finest of all bronze-leaved Cannas. The enormous trusses are made up of flowers that measure 6 inches across, and are a rich salmon-scarlet, distinctly and numerous flecked with deep crimson markings. It is a free bloomer, and with its rich, coppery bronze, massive foliage, it produces an effect both bold and striking. Height 5 feet.

Meteor. A vigorous grower, with healthy foliage; each root produces five or six trusses of bloom, which continue flowering the entire summer; pleasing deep crimson. Height 5 feet.

Venus. Gay, rosy pink with a mottled border or creamy yellow. It blooms splendidly, with heads erect and flowers bright, because the old ones drop off as fast as the new ones come. Green foliage. Height 4 feet.

Price of any of the above six varieties, 15 cts. each, \$1.25 per doz., \$8 per 100

Giant-Flowering Purple-Foliaged Canna, Wyoming

This is one of the most majestic Cannas. Blossom orange-colored, true orchid-shape, with large, rounded petals that flap and flutter in the breeze like glistening flags. Height, 7 feet. 15 cts. each, \$1.25 per doz., \$8 per 100.

GENERAL LIST, LARGE-FLOWERING CANNAS

The following varieties have been chosen from a list of almost seventy-five varieties, and are in every way the best sorts.



Cannas, Salvia and Dusty Miller

Yellow-Flowering Cannas

Austria. Pure canary-yellow; large, open flowers with reddish dots in center of the two inside petals. Height 5 feet.

Richard Wallace. A magnificent, large, yellow variety; green, well-shaped foliage, forming a very impressive plant. Grows about 5 feet high.

Red-and-Yellow-Flowering

Allemania. An improved Italia, with more numerous flowers, of immense size. Outer petals scarlet, with broad yellow border; inside scarlet and dark red, one of the best of the giant-orchid-flowered section. Height 5 to 6 feet.

Duke of York. Largest and most magnificent of the variegated Cannas. Bears great bunches of immense flowers; color a beautiful, rich, deep crimson, with a throat of curiously mottled creamy white, and each petal exquisitely edged with an irregular border of fine gold. Height 5 feet.

Indiana. Glistening golden orange, daintily marked and striped red. Single blossoms often measure 7 inches across. Height 5 feet.

Queen Charlotte. Large trusses and large flowers of blood-red petals, broadly banded with bright canary-yellow. Handsome, deep bluish green foliage. Exceedingly decorative. Height 4 feet.

Mme. Crozy. All things considered, still one of the best for bedding. A constant, free and reliable bloomer with large trusses set well above the foliage. Flowers large, bright orange-scarlet, lightly bordered with yellow. Bright green, massive foliage. Height 4 feet.

N. B.—Remember our stock is strictly extra-strong roots. Price: Roots of all Cannas in the above General List, 10 cts. each, 75 cts. per doz., \$5 per 100

Bronze-Foliaged

Musafolia. This is the finest foliage Canna yet seen, with enormous musa-like leaves 3x5 feet high, of a dark bronze-tinged green, the edges of the leaves being beautifully banded with bronze-purple. In size and beauty of foliage it is a revelation, and makes a clump or single specimen plant for the lawn which no other foliage plant can approach. Attains a height of 8 feet; beautiful and symmetrical at every stage of growth.

Brandywine. Thoroughly handsome all season through. It has a luxuriant growth of very dark foliage and is heavily topped with a magnificent display of brilliant red flowers. Height 3½ feet.

David Harum. Bright vermilion-scarlet, mottled with deep red. Bronze foliage. Height 3 feet.

Egandale. A fine bronze-leaved variety; pretty cherry-red flowers borne well above the foliage; handsome and distinct. Height 4 feet.

Mrs. George A. Strohlein. Flowers deep amaranth-red; large, bronze foliage. Height 6 feet.

President Meyer. Handsome bronze and sepia foliage; large, cherry-carmine flowers in wide trusses. Height 6 feet.

Robusta. Probably the largest-growing Canna in cultivation. If planted in rich, deep soil it will attain 7 to 9 feet in height. Foliage very large and broad, color rich metallic bronze-green. Certainly the best Canna where a tropical effect is desired. Height 6 feet.

Pink-Flowering

Mlle. Berat. Strong grower, with dark pink flowers; one of the best. Height 4 to 5 feet.

Rosemawr. Extra-fine, large-flowering, dark rose-colored variety; a fine bedder. Height 4 feet.

West Grove. Rich coral-pink flowers that withstand rain and heat. Height 4½ feet.

Crimson- and Scarlet-Flowering

A. Bouvier. Dark crimson flower; green foliage. Height 5 feet.

Black Warrior. A very dark crimson, claimed by the originator to be the darkest known variety. Height 4 feet.

Charles Henderson. The standard of excellence in crimson Cannas. Height 4 feet.

Flamingo. Intense and clear crimson; flowers are of large size and borne on immense trusses in great profusion. Height 4 feet.

Louisiana. New American orchid-flowered, strong, vigorous-growing variety, producing a dense mass of glossy green foliage and vivid scarlet flowers, often measuring 7 inches across. Imagine a plant with four to five main stems, each one crowned with thirty to forty flowers open at one time! The effect is gorgeous and indescribable. Height 7 feet.

Pillar of Fire. The giant of its class; flowers bright crimson-scarlet; continuous bloomer. Height 6 feet.



Decorative Dahlia, De Palma, showing height and flowers borne well above the foliage



NOVELTY EXHIBITION DAHLIAS

The following twelve varieties of Dahlias are the best Novelties of the best Dahlia-growers in Europe, as well as several of our own, which have been tried at our trial-grounds. Intending exhibitors at the 1917 Flower Shows will find these varieties indispensable. Owing to the small amount of roots available, **we are able to offer only green plants for delivery after May 1.**

De Palma

A splendid decorative Dahlia that has been very favorably commented upon at the Dahlia Show of the American Institute this past fall. The color is a beautiful watermelon-pink, the flowers are exquisitely formed and are borne on stout stems well above the foliage. A vigorous grower, free bloomer, and in every way a wonderful variety. **Green plants, \$1 each, \$10 per doz. We have a small stock of roots which we offer at \$2.50 each, \$25 per doz.**

Insulinda

This Dahlia, which might be classed as a peony-decorative, was also very much admired at the Dahlia Show in New York this past fall. A flower of beautiful autumnal tint; the color a deep bronze throughout. Free bloomer and strong grower. **Green plants, \$1 each, \$10 per doz.**

King of the Autumn

This decorative variety is quite a new shade of buff-yellow and terra-cotta. The flowers are large and are borne well above the foliage on strong stems. This variety will prove a splendid companion to the variety De Palma offered by us. **Green plants, \$2 each, \$20 per doz.**

A. R. Perry. A new English cactus variety. The flowers are large with incurved tubular florets. Color is old-rose tipped with gold with a golden sheen at the base. **Green plants, \$1.50 each, \$15 per doz.**

Eveque. This new decorative variety bears bright purplish violet flowers of large size on stems well above the foliage. A very effective garden as well as exhibition variety. **Green plants, \$1.50 each, \$15 per doz.**

Fearless. The largest cactus in our Novelty list. The florets are very long, slightly incurved, and as narrow as needles, the flower exceeding in width almost every other variety. Bright orange-scarlet throughout. **Green plants, \$1.50 each, \$15 per doz.**

Geraldine Edwards. A neat, prettily formed cactus with pointed and evenly incurved florets. Color pale lavender-blush, shading to creamy yellow at the base. **Green plants, \$1.50 each, \$15 per doz.**

Gossamer. Another valuable addition to the cactus varieties. The flowers are of typical incurved form. Color deep yellow, often shaded with orange, especially early in the season. **Green plants, \$1.50 each, \$15 per doz.**

Mina Burgle. While this variety is not an introduction of this year, its merits have been so favorably commented upon that we have decided to offer it in our list of Novelty Dahlias. It is a perfect decorative type and of a glowing crimson color. The blooms are borne well above the foliage on strong wiry stems. A variety of wonderful brilliance and with hardly a fault. **Green plants, 75 cts. each, \$7.50 per doz.**

Princess Mary. This grand new peony-flowered variety is of a vivid light pink color, one of the best of its color. A strong grower and free bloomer, and one sure to become generally known. **Green plants, \$1.50 each, \$15 per doz.**

Rose Gem. A grand new decorative variety of a delicate pink color. Very free bloomer; flowers borne on strong stiff stems. **Green plants, \$1.50 each, \$15 per doz.**

Searchlight. This might be best described as a yellow form of the cactus variety, Miss Stredwick, listed on the following page. The flowers are large and beautifully incurved in form, and the florets are narrow throughout their length. **Green plants, \$1.50 each, \$15 per doz.**

Washington. The best crimson cactus in our list. The flowers are very large and of pronounced incurved form. A very free bloomer, the stems being long and wiry with dark foliage. **Green plants, \$1.50 each, \$15 per doz.**

NEW EXHIBITION CACTUS DAHLIAS

Introductions 1914-1915-1916

The Cactus Dahlia is by far the most popular of all the Dahlia family, but in order to secure the best results, care should be taken to select the varieties which are the most suitable for the various purposes for which Dahlias are grown. It will be found that some of the finest exhibition varieties, owing to having pendent flower-stems, are quite useless for garden decoration, although for producing specimen blooms they may be magnificent. On the other hand, there are plenty of sorts which flower freely and have stout stems, and make splendid garden plants.

The following varieties are the introductions of England's most famous Dahlia-grower, who in twelve years captured over 400 prizes including Challenge Cups, Gold and Silver Medals.

In order that our patrons may be able to secure all of the following varieties at a moderate price, we are offering Green Plants for delivery after May 1. We urge you to place your orders as early in the season as possible.

CAMBRIAN. Clear salmon lightening to yellow at the tips, the yellow being sufficiently pronounced as almost to warrant its classification as a tipped fancy variety. Form irregularly incurved, the back florets turning abruptly across the face of the flower. Green plants, 75 cts. each, \$7.50 per doz.

DOROTHY HAWES. A flower of wonderful size and marvelous depth as well. Exquisitely incurved, of a striking clear rosy purple color. Green plants, 50 cts. each, \$5 per doz.

EDITH CARTER. Beautiful combinations of color make this an attractive variety. The general tone is pure yellow suffused with rosy carmine. Green plants, 50 cts. each, \$5 per doz.

FREDERICK WENHAM. One of the largest Cactus Dahlias. The growth is perfectly upright and the stems as stiff as a cane. The color is a beautiful pink with a soft salmon tone at the center. Green plants, 50 cts. each, \$5 per doz.

GOLDEN WAVE. Of the many yellows, Golden Wave is one that, while introduced in Europe in 1913, has still remained in the front rank of exhibition yellows. Green plants, 50c. each, \$5 per doz.

HERBERT RABY. Another giant, the flowers being amongst the largest we exhibited this autumn, and in our opinion equal to our best certified varieties in every respect. The florets are narrow, tubular, and prettily arranged, often not only incurving, but also twisting like a spinning wheel. Habit particularly good, the plants standing erect, and having stout, wiry flower-stems. Color purplish crimson throughout. Green plants, 75 cts. each, \$7.50 per doz.

HIBERNIA. A very free-flowering, stiff-stemmed variety. Flowers medium-sized, neat, compact and of incurved form. Color primrose-yellow in center, and at base of younger florets, but deepening to a bronzy shade on the older ones. This will be proved a capital variety for any purpose, being a useful exhibition flower if thinned, and equally good for garden if left natural. Green plants, 75 cts. each, \$7.50 per doz.

INDOMITABLE. A champion for exhibition. The florets are of the narrowest and perfectly incurved. A beautiful mauve-lilac, the tips of the florets being somewhat lighter. Green plants, 50 cts. each, \$5 per doz.

JOHN RIDING. For exhibition this is one of the finest introductions, its exceptional size, perfect form, great depth, and deep rich crimson color placing it in the front rank. Green plants, 50 cts. each, \$5 per doz.

MARGUERITE PHILLIPS. A flower of marvelous beauty, unequalled by any variety we have yet raised. The blooms are perfectly globular in shape, the pure white florets incurving, twisting, and interlacing, till they resemble an incurved Japanese chrysanthemum. The habit is unfortunately not good, the plants being robust as regards growth, but the flowers have pendent stems. Green plants, 75 cts. each, \$7.50 per doz.

MELODY. The most distinct of our new varieties and the most admired by all who have seen it. Color clear yellow for half the length of the florets, the remainder being pure white. Flowers of first-rate size, typical cactus form, and great depth, healthy, of good habit and flower on strong stems. Green plants, 75 cts. each, \$7.50 per doz.

MISS STREDWICK. A beautiful color combination; the center of the flower is of a soft yellow passing to a beautiful shade of deep pink which again turns to light pink at the edge. Green plants, 50 cts. each, \$5 per doz.

MRS. DOUGLAS FLEMING. Considered by many as being one of the finest White Cactus Dahlias yet raised. The plants are particularly pleasing as regards healthy growth and all-round excellence, producing flowers freely during the entire season. Green plants, 50 cts. each, \$5 per doz.

MRS. HENRY RANDLE. A model Dahlia, the flowers being carried straight up, well clear of any foliage. The blooms are of good size and prettily incurved in form. Of a pale cream, quickly changing to a lovely rosy tint. Green plants, 50 cts. each, \$5 per doz.

RED ADMIRAL. One of the most brilliant Dahlias in existence, the color being a rich fiery scarlet. The blooms are of the largest size and of finest exhibition type. Green plants, 50 cts. each, \$5 per doz.

W. E. PETERS. Clear crimson-scarlet throughout. This variety will rank as one of the leading exhibition varieties of the day. The blooms are composed of a great number of narrow florets, all of which are so incurved as to completely meet in the center, as the flowers fully develop. Stems long. Plants flower freely and every flower is good. Green plants, 75 cts. each, \$7.50 per doz.



Cactus Dahlia, Golden Wave



Cactus Dahlia, Countess of Lonsdale

TEN SELECT CACTUS DAHLIAS

The following list of Cactus Dahlias we can furnish in field-grown roots. This is a selection made with a view to supplying the amateur with an assortment of Cactus Dahlias which may be depended upon for an early and continuous display in the garden and at the same time an abundance of flowers for cutting.

AMOS PERRY. A very fine, free-blooming scarlet; color pure flaming scarlet. Considered by everyone as the standard variety for garden decoration and cutting.

COUNTESS OF LONSDALE. A pleasing blending of salmon-pink and amber; an early and profuse bloomer under any conditions. A Dahlia that is perhaps the most widely known of any in our catalogue.

COUNTRY GIRL. Base of the petals golden yellow, suffused with salmon-rose, deepest at the points.

J. H. JACKSON. The largest and the finest of the rich velvety maroons. This is the only distinct shade of maroon offered in this list and, without doubt, the best of its color.

KRIEMHILDE. The color is a delicate flesh-pink, shading to a deep rose-pink. In point of popularity this Dahlia ranks only second to Countess of Lonsdale and is a good companion. Should be in every select standard list.

MRS. EDWARD MAWLEY. An exquisitely shaped Cactus Dahlia; color lemon-yellow.

MRS. H. J. JONES. Very large, perfect, rich, bright scarlet, with cream-colored edge; occasionally comes self-colored.

PRINCE OF YELLOWS. Very large, with broad petals, which are fringed at the tips; color a rich canary-yellow.

PRINCESS. Rose-pink; flowers are very large, often measuring 6 inches in diameter.

WINSOME. A very fine white; free-flowering and quite continuous.

Price, any of the above, 25 cts. each, \$2.50 per doz., \$18 per 100

SPECIAL OFFER { 1 each, 5 varieties, 5 roots \$1 00
COLLECTION { 6 each, 5 varieties, 30 roots 5 00

The varieties in this offer are selected by us

CHOICE DOUBLE SHOW DAHLIAS

A. D. LIVONI. A splendid clear pink, beautifully quilled. The form of the flower is everything to be desired and a continuous bloomer.

ARABELLA. Light sulphur-yellow, shaded peach-blossom at the edges; a fine free-flowering variety.

CALEB POWERS. This may best be described as an improvement in size, coloring, and in earliness to the popular variety Susan. The color is a delicate shell-pink; of splendid form.

CHARLES LANIER. Very large yellow, shaded amber. This variety is a wonderful bloomer, producing its large, well-shaped flowers on erect, stout stems, well above the foliage.

JOHN WALKER. A splendid, well-formed and free-flowering white variety. The habit of plant is excellent, bearing blooms early and regularly throughout the season.

LEMON BEAUTY. Very large, full, rounded form. Beautiful soft shade of lemon-yellow. The flowers are borne on long, straight stems, making it very desirable for cutting.

RED HUSSAR. Intense scarlet-crimson. The plant is a strong, vigorous grower, with dark glossy foliage. An early bloomer.

PROFESSOR MANSFIELD. Flowers very large, golden yellow, tipped white, sometimes golden yellow, tipped red, and other tints shaded to red tipped white; one of the largest.

Strong roots of the above varieties, 25 cts. each, \$2.50 per doz., \$18 per 100

POMPON DAHLIAS

Allie Mourey. Light pink, tipped deep pink; blooms very profusely.

Catharine. The finest pure yellow.

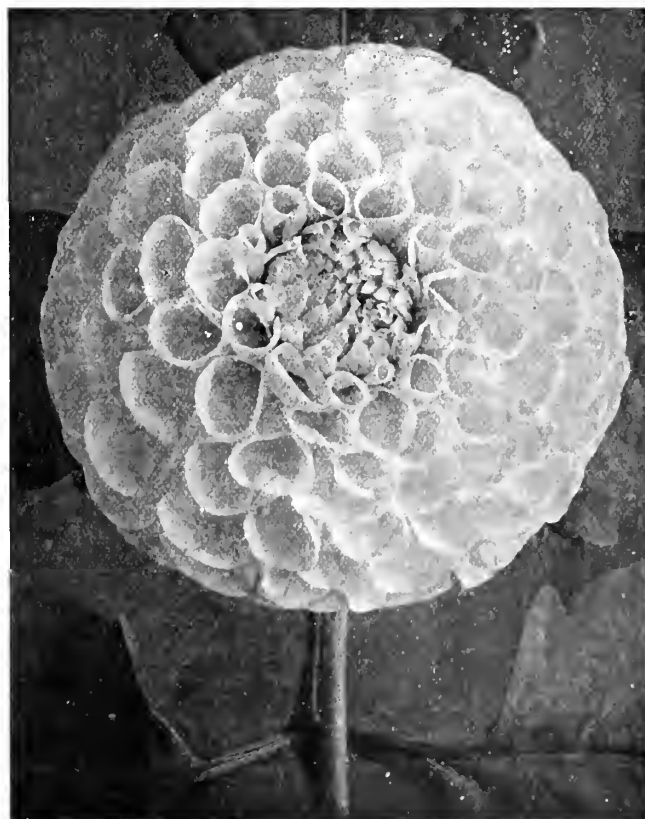
Klein Domitea. Salmon-buff; very profuse in bloom, on long stems.

Little Beauty. Delicate shrimp-pink; quilled petals. Well named.

Red Indian. Deep coral-red; handsome flowers on long stems.

Snowlad. Finest pure white Pompon, borne profusely on long stems.

20 cts. each, \$2 per doz.



Show Dahlia, John Walker

EIGHT GRAND DECORATIVE DAHLIAS

The following eight varieties have proved from our trials to be of unusual merit. We can supply roots, up to within a reasonable season, of all varieties, but as these eight grand sorts are limited, we may be obliged to send plants. Our customers will be notified if unable to send roots on receipt of orders.

DELICE. The finest pink Decorative Dahlia; color suffused with lavender-pink; perfect in form and habit, producing flowers on long, stiff stems; invaluable for cutting. This variety should appeal to every lover of flowers on account of the delicate color. 25 cts. each, \$2.50 per doz.

GREAT BRITAIN. Clear mauve, reminding one of the soft tints seen in the orchids; large flowers. First-class Certificate, Amsterdam and Haarlem. Strong roots, 75 cts. each, \$7.50 per doz.

HORTULANUS FIET. Another giant-flowered variety with blooms over 8 inches in diameter, of the most delicate shade of shrimp-pink, the tip of each petal barely touched with gold. The entire flower has a suffusion of delicate tints of red and yellow, which gives a glow, yet softness of color difficult to describe. Strong roots, 75 cts. each, \$7.50 per doz.

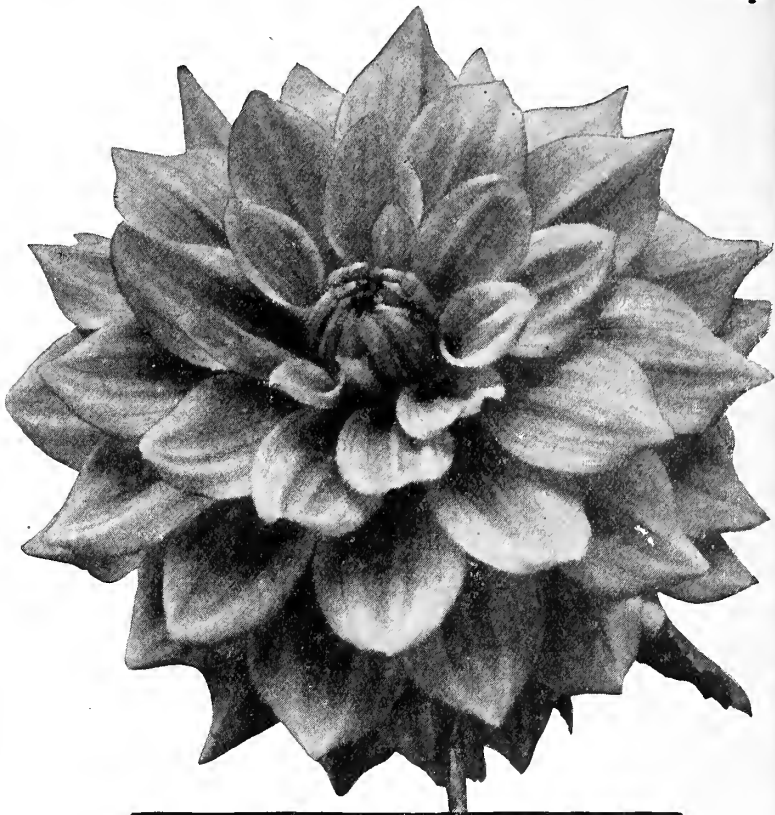
HORTULANUS WITTE. A companion in every way to the above variety except in color, which is a pure white. This and the variety above have been largely exhibited at the Dahlia shows this past fall. Strong roots, 75 cts. each, \$7.50 per doz.

LE GRAND MANITOU. The first variegated Dahlia of the Decorative type. The flowers are from 5 to 6 inches across; ground-color is white, prettily spotted, striped, blotched and suffused with reddish violet. At times this variety runs a solid color, the case with most variegated Dahlias, when it is a most beautiful shade of reddish violet. 50 cts. each, \$5 per doz.

MME. VICTOR VASSIER. The grandest sulphur-yellow Dahlia yet introduced. Flowers are very large, bold, free, fine of form; a grand exhibition variety; one that was largely exhibited this past fall. 50 cts. each, \$5 per doz.

MRS. FLEERS. A perfect combination of shades of bright red and rose. Flowers on long stems, fine for cutting. First-class Certificate. Strong roots, 50 cts. each, \$5 per doz.

PRINCESS JULIANA. A wonderful white Decorative Dahlia; plants covered with blooms from early until late; the very best for decorative work. Strong roots, 50 cts. each, \$5 per doz.



Decorative Dahlia, Hortulanus Fiet

STANDARD DECORATIVE DAHLIAS

Admiral Dewey. Not a very new variety, but included in this list on account of its brilliant deep imperial purple color and fine form. 25 cts. each, \$2.50 per doz.

Cuban Giant. Color dark, glowing crimson, shaded maroon; of immense size—6 to 7 inches in diameter; full, round form, and free bloomer. This variety is truly a giant in both flower and plant. 25 cts. each, \$2.50 per doz.

Clifford W. Bruton. Considered by many as being the best canary-yellow Decorative Dahlia yet introduced. It is an early and continuous bloomer of fine form. The flowers are borne well above the foliage, making it excellent for garden decoration and cutting. 25 cts. each, \$2.50 per doz.

Henry Patrick. A very popular pure white variety largely used by commercial florists on account of its free-blooming habit and well-shaped flowers. 25 cts. each, \$2.50 per doz.

Jack Rose. One of the most popular of florists' cut-flower varieties. In color a rich shade of crimson similar to the rose after which it was named. Plants are of sturdy growth producing an abundance of blooms, borne on stout stiff stems well above the foliage. Very fine for exhibition and as a cut-flower. 25 cts. each, \$2.50 per doz.

Lyndhurst. A very bright scarlet and an early and free bloomer. The flowers are large, perfectly full-centered, and are borne on long, stout stems well above the foliage. 25 cts. each, \$2.50 per doz.

Miss Minnie McCullough. One of the most popular cut-flower varieties now grown; particularly valuable for use under artificial light. Color a soft yellow, overlaid with bronze; a beautiful autumn tint. 25 cts. each, \$2.50 per doz.

Mrs. Charles Turner. A very fine deep yellow variety. The habit of the plant is excellent. The blooms are well above the foliage making it a splendid cut-flower variety. An early free bloomer. 25 cts. each, \$2.50 per doz.

Souvenir de Gustave Doazon. A variety of mammoth proportions, which, under ordinary cultivation, will produce flowers 6 inches across and can be grown to measure fully 9 inches. It is of free growth, a remarkable free bloomer and a pure red in color. 25 cts. each, \$2.50 per doz.



Decorative Dahlia, Souvenir de Gustave Doazon

NEW PEONY-FLOWERED DAHLIAS

The Peony-flowered Dahlias originated in Holland, and have become very popular. The flowers are very large, and resemble somewhat the semi-double peony in form. The petals are very peculiarly twisted and incurved, and the flowers are produced on extra-long stems, making them invaluable for cutting or garden decoration. **Of the five varieties of Dahlias listed under heading of new varieties, we offer green plants only.**

Attraction

Large elegant flowers of a clear lilac-rose color. A flower of wonderful substance and size and will undoubtedly be an attraction at all Dahlia shows this coming fall. This variety has been certificated at the European Dahlia shows this past fall. **Green plants, 75 cts. each, \$7.50 per doz.**

Bianca

Has somewhat the lovely shape of the cactus type, but with the stronger habit of the peony-flowered stems. A very pretty lavender-pink in color. **Green plants, 75 cts. each, \$7.50 per doz.**

Diana

A beautiful deep crimson-violet. A flower of wonderful size, finely shaped, and borne on long stiff stems well above the foliage. A fine exhibition variety in every way. **Green plants, 75 cts. each, \$7.50 per doz.**

Sterna

A pale sulphur-white. The color is an even tone throughout. The flowers are of large size and exquisitely shaped, and are borne well above the foliage on strong stiff stems. **Green plants, 75 cts. each, \$7.50 per doz.**

Yellow King

Considered by many who have seen this variety as the finest Peony-flowered Dahlia grown. In color a pure shade of yellow, of wonderful size and substance, the flowers being borne well above the foliage. **Green plants, 75 cts. each, \$7.50 per doz.**



Peony-flowered
Dahlia, Attraction

Select Peony-Flowered Dahlias of Recent Introduction

The following varieties have been selected from a list of twenty-five varieties and are in our opinion the best ten. We have endeavored to offer only the most distinct sorts. We offer strong roots of the following ten varieties:

BERTHA VON SUTTNER. Very fine acquisition, obtained by hybridization with the variety H. Hornsveld. The flowers are of the same fine form as the latter, but are carried erect. Salmon-pink, shaded yellow; of compact, sturdy growth and very floriferous, the flowers often measuring 8 inches in diameter. 35 cts. each, \$3.50 per doz.

CAESAR. A splendid standard canary-yellow. The flowers are borne well above the foliage. A free and continuous bloomer. 50 cts. each, \$5 per doz.

CHANTENAY. In color similar to the well-known Chantenay rose. The blooms are held erect on good stiff stalks. On account of this shade of yellow, this variety is always greatly admired in our trials. 75 cts. each, \$7.50 per doz.

DR. PEARY. Of a brilliant reddish mahogany color, quite the darkest in our list. A very free bloomer and vigorous grower. 50 cts. each, \$5 per doz.

DUKE HENRY. A rich brilliant deep crimson color. The flowers are of large size. Effective for garden decoration on account of its color, and fine for cutting. 35 cts. each, \$3.50 per doz.

GEISHA. The showiest and most attractive of this type yet introduced; of strong growth, with the rich-colored flowers, which are frequently over 8 inches in diameter, standing well above

Geisha, continued

the foliage. These are original in form, consisting of peculiarly twisted and curled petals, of an effective and rich combination of scarlet and gold, the center being yellow, which becomes suffused with and deepens to scarlet at the center of the petals, shading off lighter at the edges. 50 cts. each, \$5 per doz.

GERMANIA. Bright glowing crimson-scarlet. A flower of very artistic appearance, the petals elegantly curled and twisted. The habit of the plant is excellent and the blooms are borne perfectly erect, well above the foliage. 35 cts. each, \$3.50 per doz.

H. HORNSVELD. Sometimes four and five rows of elegantly twisted and curved petals build up a most graceful flower of giant dimensions. A specimen bloom of this variety last season measured 8½ inches. The color is most delicate and pleasing, a soft salmon. 35 cts. each, \$3.50 per doz.

H. J. LOVINK. A flower of exceptional color which is both distinct and unusual in this class of Dahlias, being a fine pure white, shaded with lilac. The habit is good and form perfect, producing its large flowers on exceedingly long stems, well above the foliage. 50 cts. each, \$5 per doz.

QUEEN WILHELMINA. Immense fluffy flowers of pure white, with yellow center; makes a handsome flower for decoration. 30 cts. each, \$3 per doz.

Giant Single, Century and Collarette Dahlias

CHOICE OLD-FASHIONED SINGLE DAHLIAS

Blackbird. Black velvety maroon with a bright red spot at the base of each petal.

Gaillardia. Golden yellow with a broad red band around the golden disk resembling *Gaillardia grandiflora*.

Jack. A very brilliant fiery scarlet, the base of the petals overlaid with golden yellow. A very free bloomer.

St. George. A pretty primrose-yellow.

Wildfire. Brilliant poppy-scarlet of large size. A plant in full bloom is a gorgeous sight.

Price, any of the above, 15 cts. each, \$1.50 per doz.

CENTURY DAHLIAS

These magnificent Dahlias are similar to the Single Dahlias listed above except that the Century varieties are larger in size. They bloom profusely and continuously throughout the season; flowers frequently measure 6 inches across on stems 3 feet tall, and when cut keep in good condition for many days.

CRIMSON CENTURY. Deep, glowing crimson, shaded darker and tipped rose with rose disk.

ECKFORD CENTURY. Color pure white, spotted pink and penciled crimson. Not only a distinct variety, but an entirely new type, and bound to give satisfaction.

GLADYS CENTURY. Rosy crimson center, with rose-pink band on either side and a white halo.

GORGEOUS. When we introduced Scarlet Century we thought we had reached perfection, but in Gorgeous we have made still further progress. Flowers have a wide stripe of white or a solid white petal.

HARVARD. The color is an intense crimson with a most brilliant, glistening sheen.

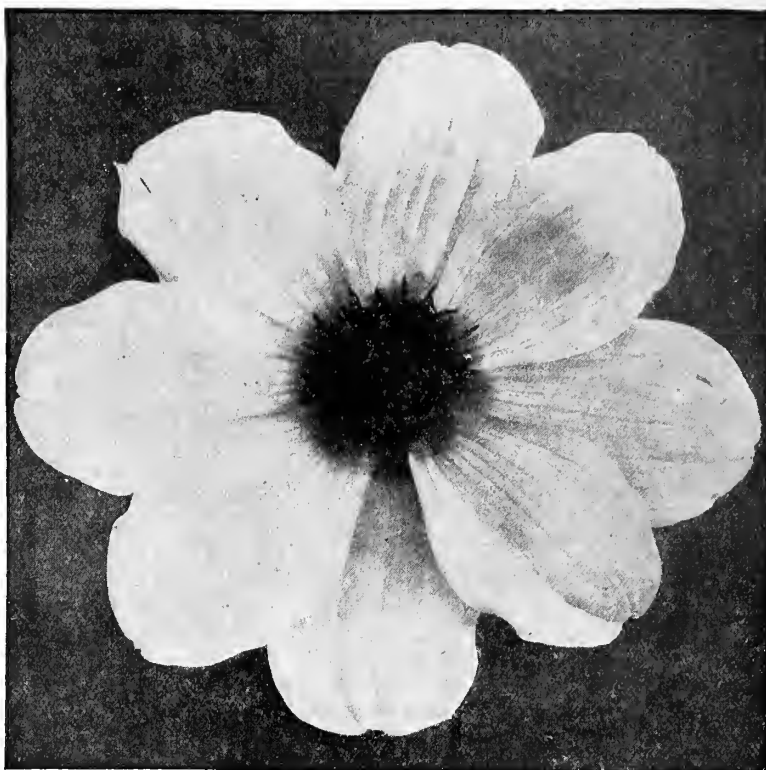
MAROON CENTURY. Rich maroon, shaded plum; large and velvety. A strong grower, producing a well-shaped flower on long stems above the foliage.

ROSE-PINK CENTURY. Of a beautiful rose-pink color. The plant is an exceptionally free bloomer, producing long stems.

WHITE CENTURY. The flowers are of immense size, 6 to 7 inches in diameter, of beautiful snow-white color.

Price, any of the above varieties, 25 cts. each, \$2.50 per doz.

COLLECTION, 1 each of the 10 varieties \$2 00



Century Dahlia, Rose-Pink Century

YELLOW CENTURY. The plant is tall, producing flowers well above the foliage. Bright canary-yellow.

20th CENTURY. Color intense rosy crimson, with white tips and white disk around the yellow center. As the season advances the dark-colored zone becomes lighter.

COLLARETTE DAHLIAS

French specialists have given us many improved forms of this type, some with very large flowers and delightful color combinations, from which we have selected the varieties here offered. These unique flowers were exhibited quite extensively last year in foreign countries, meeting with great approval, and we predict the same success here. The flowers are single, with a row of petals around the center known as the "Collar," which is usually different in color from the rest of the flower. We have, for the first time, been able to offer roots of the following varieties. All orders will be filled in roots until stock becomes exhausted, after which we will supply plants in May. We will notify our patrons if this is necessary.

ALBERT MAUMENE. A beautiful shade of light pink; collar white and pink. Very erect growth. 50 cts. each, \$5 per doz.

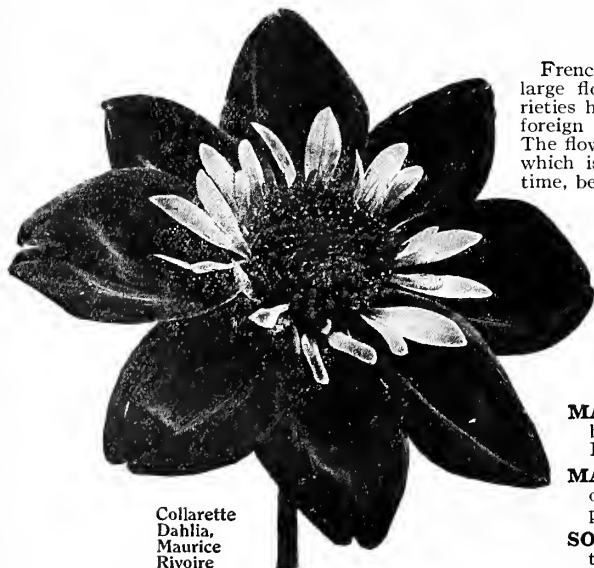
EXPOSITION DE LYON. A very gay flower of a bright garnet color with clear yellow collar petals. 30 cts. each, \$3 per doz.

HENRY FARMAN. Brilliant cardinal-red, frequently edged with creamy yellow, and a large halo of the same color surrounding a golden disk; collar creamy yellow. 50 cts. each, \$5 per doz.

MADAME E. POIRIER. Deep purple suffused lighter, which gives it a violet-blue effect; collar petals white. The nearest approach to a true blue found in Dahlias. 50 cts. each, \$5 per doz.

MAURICE RIVOIRE. An attractive flower with petals of ox-blood-red, with deeper stripe down the center; pure white, fringed collar. 30 cts. each, \$3 per doz.

SOUVENIR DE CHABANNE. Brilliant, deep scarlet; collar yellow with white tips. Very unique and striking. 35 cts. each, \$3.50 per doz.



Collarette
Dahlia,
Maurice
Rivoire



EVERGREEN TREES BY MAIL



POSTPAID—12 PACKAGES AS BELOW

Fine for hedges, windbreaks and ornamental lawn planting. These packages must be purchased as listed. By mail, postpaid to destination. Safe arrival guaranteed to any point in the United States. \$1.50 per package; any 6 packages for \$7.50.

Complete planting instructions and cultural directions will be furnished with each order.

There is unquestionably no better way of beautifying your grounds than surrounding it with beautiful Evergreens. Evergreens are a permanent asset. They are everlasting and add to the beauty of the home winter and summer. Plant some Evergreens around your garden, and just see how much difference there is in the temperature and moisture. You will find that you can grow flowers, fruits and vegetables that you never could before. Groups of Spruces, Pines, Firs and individual trees here and there about the yard, and along driveways, change a dreary house into a comfortable home. Remarkable effects are produced by Evergreens, with color and foliage blending harmoniously—full of mystery at dawn or dusk. In summer they are cooling and refreshing. In winter they add color, warmth and cheerfulness.

These varieties have been thoroughly tested and proved absolutely hardy and reliable, and will grow successfully in all parts of the country. Send in your orders as early as possible to avoid disappointment, as stock is limited. Shipment will be made in March, April or May. You cannot afford to overlook these wonderful collections.

- | | | |
|---|--|---|
| 1. 100 Norway Spruce. 3-yr. seedlings. | 5. 100 White Pine. 2-yr. seedlings. | 9. 100 Jack Pine. 2-yr. seedlings. |
| 2. 100 Scotch Pine. 2-yr. seedlings. | 6. 50 Black Hills Spruce. 3-yr. seedlings. | 10. 100 Concolor Silver Fir. 2-yr. seedlings. |
| 3. 100 Douglas Fir. 2-yr. seedlings. | 7. 100 Amer. Arborvitæ. 3-yr. seedlings. | 11. 100 Ponderosa Pine. 3-yr. seedlings. |
| 4. 50 Colo. Blue Spruce. 2-yr. seedlings. | 8. 100 Dwarf Mount. Pine. 3-yr. seedlings. | 12. 100 White Spruce. 3-yr. seedlings. |

\$1.50 per package, any 6 packages for \$7.50, by mail postpaid.

Our Frost-Proof Cabbage Plants Will Double Your Profits. Why?

There are a number of sea islands along the South Carolina seacoast where the soil and climatic conditions are just suited for growing tough, hardy Cabbage plants during the winter and early spring. The plants make a slow but steady growth, until at eight to ten weeks of age they are very tough and hardy, the buds are purple and the outer leaves a reddish brown. When in this condition they can be shipped to the territory farther north and be planted in the open ground a month to six weeks sooner than the home-grown hotbed or coldframe plants could be planted. These FROST-PROOF CABBAGE PLANTS will stand a temperature of 8 to 10 degrees above zero without injury; the land freezing, or the plants being covered with ice, sleet or snow after they are planted, will not injure them.

The top of the plant does not grow until our regular spring weather opens up, but the roots grow from the time they are planted, and just as soon as spring weather starts, the established root-growth assimilates the fertilizer in the soil, the plants grow very fast, maturing headed Cabbage ten days to three weeks sooner than you can mature them from hotbed and coldframe plants. You know what the difference in profit will be if your crop is matured and marketed before the general crop from home-grown plants.

To get the advantage of these Frost-proof Cabbage Plants they must be planted a month or six weeks earlier than you would plant home-grown plants.

Our Cabbage plants are grown from the best Long Island-grown seed, and are shipped direct from our growing station in South Carolina by parcel post or express. We can fill orders from December 1 to April 15.

The plants will be somewhat wilted and have a hard, stunted appearance, which will be disappointing to persons who have never used these plants before. Regardless of appearance, they will produce the crop results. We guarantee good-order delivery.

**Varieties: Early Jersey Wakefield, Charleston (Large Type)
Wakefield, Succession and Early Flat Dutch**

By parcel post, prepaid, 50 cts. per 100, \$2 for 500, \$3.75 per 1,000.

NEW AND RARE GLADIOLI

The following Gladioli, many of which are very high in price, represent the cream of the introductions of many noted growers. While the prices may seem high, they are justly based on the small stocks available. We would advise our customers who are desirous of obtaining a more select and advanced list than that which they already have to procure some of the following varieties.

Bulbs may be planted in April, and if flowers are desired from July until October, they may be planted at successive intervals of two weeks up to July 1.

CULTURE.—Any good garden soil will grow Gladioli well, provided they are planted in a sunny location. Bulbs should be planted 4 inches deep and at least 6 inches apart; frequent cultivation with a hoe or weeder, around the base of the plant, to prevent the soil from becoming hard or cakey, is advisable. Where desired for garden decoration or exhibition, we advise plants being staked after attaining the height of 1 foot. (We offer light green dyed bamboo canes, which are excellent for this purpose.) Water copiously, and as the flower-buds begin to form, apply liquid manure for best results.

Europe. We are pleased to be able to offer this variety which is without a doubt the best pure white Gladiolus introduced. We offer bulbs grown at our own grounds. There is no better white and this variety has proved a winner at most flower shows. 20 cts. each, \$2 per doz., \$15 per 100.

Fire King. Where a rich scarlet is desired, Fire King will prove all that is claimed for it. The flowers are borne on long graceful spikes, showing half a dozen immense blooms open at one time. More brilliant than Brenchleyensis or Cardinal. 20 cts. each, \$2 per doz., \$15 per 100.

Florence. Uniform soft lilac with a white blotch on the lower petals. Very distinct in color and splendid for contrasting with the varieties, Loveliness or Niagara. Should be in every collection on account of its color. 50 cts. each, \$5 per doz., \$35 per 100.

Lily Lehman. A very prettily formed white variety. While we do not consider this as good as Europe, we unhesitatingly recommend it as a good white. The general effect of the flower is a pure glistening white with just a tinting of pink at the tips of the petals. 15 cts. each, \$1.50 per doz., \$10 per 100.

Loveliness. A finely formed, smooth-petaled flower on a strong bold spike carrying as many as eight blooms open and in good condition at the same time. The color is a pale primrose with a faint suffusion of buff or apricot. It has a primrose inner petal and purplish throat with blue anthers which contrast beautifully with the purity of this noble flower. 20 cts. each, \$1.50 per doz., \$15 per 100.

Mary Fennel. A color not usually seen in Gladiolus, and one that contrasts well with the pale pink and primrose varieties. A beautiful shade of deep lavender, lower petals penciled primrose. 30 cts. each, \$3 per doz., \$20 per 100.

Mrs. Frank Pendleton. A gem of the first water. Most amateurs and professionals who have seen this grand variety in the fields and at exhibitions are loud in its praise. Its delicately flushed salmon-pink color, extending to the reverse side of the petals as well as in the center, its wide-open blooms, arranged loosely on strong, wiry stems, which fall gracefully when placed in vases, and the deep rich maroon blotch on the three lower petals make a combination of distinct merit not possessed by many of our best Gladioli. 20 cts. each, \$2 per doz., \$15 per 100.

Mrs. G. W. Moulton. A beautiful red flower, of the dark rich tone of the American Beauty Rose, splashed with darker tone on the interior petals which also bear delicate tracings of white. The spike is tall and straight, the leaves large and firm, and with the richly colored flowers it makes an especially attractive plant for garden effect. 30 cts. each, \$3.50 per doz., \$20 per 100.

Panama. Exquisite and magnificent, being fully the equal of America in form and size, but superior to it in color, being a deeper shade of pure rose-pink, similar to that of the popular rose, Mrs. John Laing. Wherever this variety has been exhibited it has secured First Premiums. European growers have endeavored to secure the entire stock, in some cases offering \$1 each for the bulbs or bulblets when first introduced. 15 cts. each, \$1.50 per doz., \$10 per 100.

Pink Perfection. A beautiful, pure apple-blossom-pink, quite distinct in coloring from any of the above named. The softness of the coloring and the wonderful texture of the blooms make it one of the choicest of the newer varieties. The flowers are large and well arranged on strong spikes. 15 cts. each, \$1.50 per doz., \$10 per 100.

Schwaben. Without the least doubt, the finest yellow of recent introduction. A robust, rather dwarf grower; pure canary-yellow with a carmine blotch deep in the throat, which does not detract from its beautiful, uniform color. The flowers are large, borne on strong stems, well placed, frequently six to eight open at one time. 20 cts. each, \$2 per doz., \$15 per 100.



Gladiolus, Mrs. Frank Pendleton

TWELVE FINE EXHIBITION GLADIOLI

Each year we are requested to prepare a list of the best Gladioli within a limited number of varieties covering all distinct colors. The following varieties which, in some instances, have been superseded by newer varieties offered on the preceding pages, are good exhibition sorts, and may now be obtained at prices that should encourage everyone to buy in larger quantities.

America. One of the most popular Gladioli Each Doz. 100 offered, on account of its many good points, and while now superseded by Panama, it is still a strong favorite. It is grown by thousands everywhere in the United States. Its delicate lavender-pink flowers, of large size, borne on robust stems, make charming cut-flowers. \$0 05 \$0 40 \$3 00

Attraction. Deep, dark, rich crimson with a very conspicuous, large, pure white center and throat. A most beautiful and attractive sort. 05 50 3 50

Baron Hulot. Rich, royal violet-blue; one of the finest in its color. When this Gladiolus is cut and arranged in combination with Sulphur King, the contrast is truly exquisite, and it should be in every collection. 10 75 5 00

Empress of India. Rich, dark brown-red, a rather rare color; splendid for combining with pale varieties offered on this page; flowers are large and borne on strong, stiff stems; foliage deep green. 10 1 00 7 00

Halley. A variety of excellent merit on account of its earliness. Bulbs planted in our trials late in April have yielded splendid spikes of bloom in June. The flowers are large and of a beautiful salmon-pink, with a creamy white blotch in the throat which greatly enhances their beauty. For massing in the garden we know of no variety in our list that will give more general satisfaction. 05 50 3 50

Kunderdi "Glory." This beautiful ruffled Gladiolus is a distinct advance in the culture of this flower. The flowers are broadly expanded, borne in twos, all face the same direction, and are carried on straight, stout stalks, having from three to eight of these handsome flowers open at a time. The color is a delicate creamy pink, with a most attractive crimson stripe in the center of each lower petal. 15 1 50 10 00

Mrs. Francis King. A strong grower, vigorous and healthy. Has long, strong foliage and effective flower-spikes, with a goodly number of reserve buds continually opening. The magnificent flowers measure $4\frac{1}{2}$ inches across, and there are five or six flowers well spread out on the spike at the same time. The color, brilliant flamingo-pink, blazed with vermilion-red, is most effective both in daylight and under artificial light. 05 50 3 50

Niagara. A splendid companion to America, introduced by the originator of this now universally popular sort. While it resembles it in form, the flowers are somewhat larger and the spike is taller. The color of this 15 1 50 10 00

variety is soft primrose. Deep in its throat are lines of faint lilac; the purple stamens and pale carmine stigmas give the flower a delightful, pleasing color.

Peace. One of the grandest white introductions of 1912, that will retain its place among the good white varieties for some time to come. The pale lilac feathering on the inferior petals, together with its strong, broad, rich green foliage and spike, make it a most desirable Gladiolus in any collection. This variety seems to produce blooms of a better white later in the season than most sorts. Bulbs planted late in June have produced wonderful flowers in September. 10 1 00 7 00

Princeps. (The Amaryllis-flowered Gladiolus.) Considered the best of its color. Wonderful-sized flower, perfect shape, brilliant coloring, and artistic form of flower-spike are each a notable improvement of all existing varieties. Color is brilliant scarlet-crimson, carrying mostly three broad white blotches on the lower petals. First-size bulbs, 1 to $1\frac{1}{2}$ inches. 10 1 00 7 00

Sulphur King. For size of flower and keeping qualities, this Gladiolus is considered as being the best of the yellows. A few blooms cut and arranged in vases in combination with Baron Hulot will prove most effective. 25 2 50 18 00

Wild Rose. A remarkable Gladiolus, and one that will gain prestige as it is known, as it ranks with the very best. Color bright rose or blush-tint. This was rightly named, and the wild rose tinge of color is strongly pronounced. 15 1 75 12 00

SPECIAL OFFER: Collections

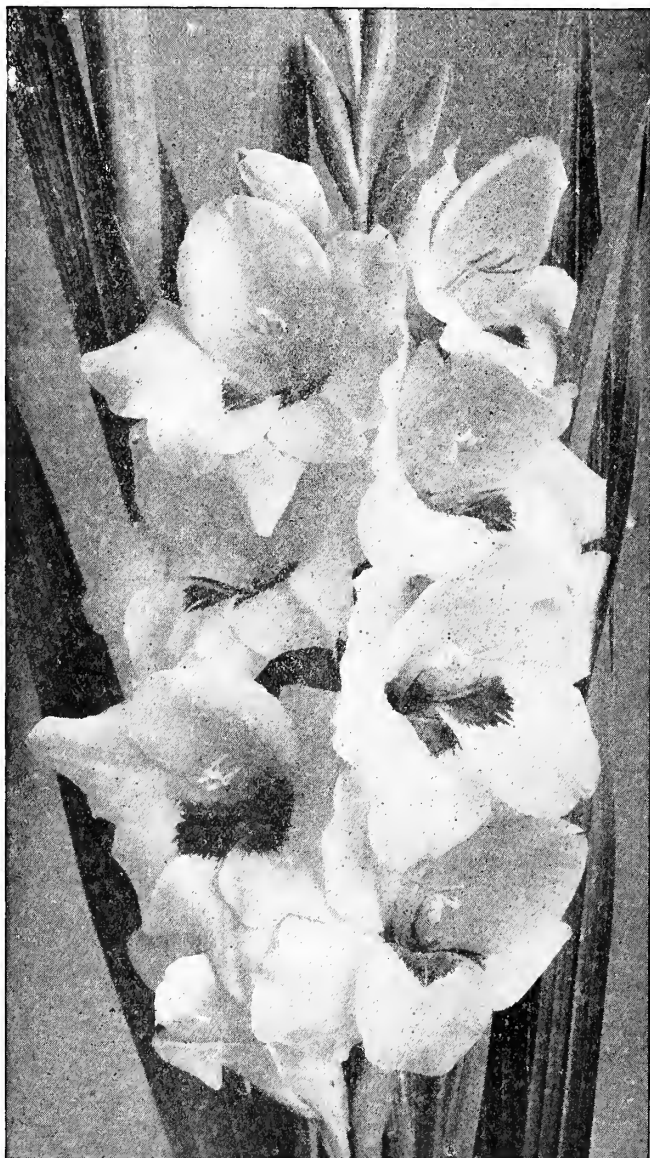
DELIVERED ANYWHERE IN UNITED STATES

1 bulb each, 12 varieties (12 bulbs).....	\$1 00
5 bulbs each, 12 varieties (60 bulbs).....	4 50
10 bulbs each, 12 varieties (120 bulbs).....	8 00

STANDARD NAMED GLADIOLI

Augusta. Best white for the amateur to grow. Pure white, throat slightly tinted lavender. Selected bulbs, 5 cts. each, 50 cts. per doz., \$3.50 per 100.

Blanche. A sterling white variety with but faint marks. The flowers are very large. A fine exhibition Gladiolus 30 cts. each, \$3 per doz., \$20 per 100.



Jean Dieulafoy Gladiolus

Brenchleyensis. Clear vermilion-scarlet, one of the most showy and satisfactory of its color. 5 cts. each, 50 cts. per doz., \$3 per 100.

Canary-Bird. While this variety does not equal Sulphur King, it is preferred by many and considered a splendid yellow. 15 cts. each, \$1.50 per doz., \$10 per 100.

Cardinal. A perfect spike; flowers of intense cardinal-red, very rich and showy, representing one of the finest varieties. 25 cts. each, \$2.50 per doz., \$15 per 100.

Compacta. Large flower, very compact; wide spike, rosy blush, slightly striped and mottled pink. Quite distinct and very handsome. 15 cts. each, \$1.25 per doz., \$9 per 100.

Contrast. A flower of great substance and a beautiful, compact spike of perfect form. Color intense scarlet with large, distinct, pure white center, which is neither tinted nor mottled. One of the most striking and beautiful Gladioli ever introduced. 50 cts. each, \$5 per doz., \$35 per 100.

I. S. Hendrickson. A beautiful, irregular mottling of white and rose; in some the rose and in others the white predominating; flowers immense in size. 15 cts. each, \$1.50 per doz., \$10 per 100.

Jean Dieulafoy. We consider this as one of the very best varieties of recent introduction. The flowers are of large size, of a beautiful shade of creamy white, enhanced by the lower petals being stained maroon, and borne on strong, rich green stems. 20 cts. each, \$2 per doz., \$12 per 100.

May. Pure white; delicately flaked rosy crimson and a very excellent sort for early flowering. 5 cts. each, 50 cts. per doz., \$4 per 100.

Mrs. Beecher. Beautiful deep, rosy crimson. Large, well-opened flowers with pure white throat freely marked and spotted. 15 cts. each, \$1.50 per doz., \$10 per 100.

Nezinscott. Bright blood-scarlet, with deep, velvety crimson-black blotches and white mottlings. 15 cts. each, \$1.25 per doz., \$9 per 100.

Portland. Rosy red, penciled darker, mottled throat; a very striking variety. 10 cts. each, \$1 per doz., \$8 per 100.

Scarsdale. Long, graceful spike of wide-open flowers of a pleasing lavender shade; splendid for contrasting with pale sorts offered on this page. 15 cts. each, \$1.50 per doz., \$10 per 100.

Shakespeare. White, very slightly suffused with carmine-rose, large rosy blotch. 15 cts. each, \$1.25 per doz., \$9 per 100.

Taconic. A flower of striking appearance; flecked pink; lower petals marked deep crimson. \$1.50 per doz., \$10 per 100.

PRIMULINUS HYBRIDS

When the original Primulinus was first grown in this country, many Gladiolus-growers were impressed with the graceful habit of the plant and flowers. They were small and somewhat hooded. The original species, as they were first introduced from South Africa, created interest among these growers mainly for their habit and the beautiful colorings of the flowers. They proceeded to cross them with the finest of the large-flowering Gladioli and the resultant crosses brought forth a really beautiful acquisition. The flowers were larger, more open, retaining their graceful placement on the spikes and also their beautiful range of artistic colors. Our Hybrids range in color from pale sulphur-yellow-apricot to the deepest chrome-yellow and excellent shades of orange as well. We are pleased to offer this splendid mixture and suggest that our patrons try some, as for artistic decorations these flowers borne on long slender spikes are wonderful. 75 cts. per doz., \$5 per 100, \$45 per 1,000.

Gladiolus Mixtures

S. & W. Co.'s Selected Mixed. This mixture is composed of very choice varieties and represents a good many of the varieties listed in our catalogue. Bulbs of fine, selected size and, where an assortment of various types and colors is desired, we strongly recommend it. 35 cts. per doz., \$2.50 per 100, \$20 per 1,000.

AMERICAN HYBRIDS. All colors mixed. 35 cts. per doz., \$2 per 100, \$15 per 1,000.

CHILDSII. Mixture of large-flowering sorts. 50 cts. per doz., \$3.50 per 100, \$30 per 1,000.

GROFF'S NEW HYBRIDS. The flowers are of good substance. All colors among Gladioli are well represented, including blues, grays and purple-blacks. Mixed, 50 cts. per doz., \$3 per 100, \$25 per 1,000.

Various Shades

YELLOW and ORANGE SHADES. 75 cts. per doz., \$6 per 100.

SCARLET and RED. 50 cts. per doz., \$3.50 per 100.

WHITE and LIGHT. 60 cts. per doz., \$4 per 100.

HARDY LILIES

The Lilies offered below are among the best for spring planting. For a more extensive list we refer to our Fall Bulb Catalogue, issued in August. Our list is confined to those varieties we know from actual trials do best, and the following varieties will prove satisfactory if planted by June 1.

Lilies do best in the hardy border or among shrubbery, for the reason that the flowering stems bear masses of roots immediately below the ground surface, and the shady situation helps these roots to better feed the plant; when through flowering, these roots help in the rehabilitation of the bulbs for another season. Any good garden soil with good drainage will do. In planting, cover bulbs at least twice their height, and, if possible, spread 1 inch of sharp builders' sand under the base, so that after the bulbs make basal roots the sand will provide drainage if water-logged in winter. When hard frost sets in, cover with 4 to 6 inches of leaves or litter which should be removed when spring sets in.

Lilium auratum

(Golden-Rayed Lily of Japan)

The flowers are pure white, thickly studded with crimson spots, while through the center of each petal runs a clear golden band. Fully expanded, the flowers measure nearly a foot across, are produced abundantly from July to September, and possess a most delicious fragrance. 3 to 5 feet.

	Each	Doz.	100
8- to 9-inch bulbs.....	\$0 15	\$1 50	\$10 00
9- to 11-inch bulbs.....	20	2 25	15 00
11- to 13-inch bulbs.....	40	3 50	25 00
13- to 15-inch bulbs.....	50	5 00	40 00

Lilium speciosum magnificum

(Oriental Orchids)

Words cannot describe the beauty of this variety. Frosted white, spotted, clouded and bordered with deep pinkish crimson. A much superior variety to the Roseum, Rubrum or Melpomene of the Speciosum type. For the border, among hardy plants or naturalized among rhododendrons, this is an equal favorite with the handsome *Lilium auratum* offered above. Splendid for pot culture as well. Blooms outside during August.

	Each	Doz.	100
8- to 9-inch bulbs.....	\$0 15	\$1 50	\$10 00
9- to 11-inch bulbs.....	20	2 25	15 00
11- to 13-inch bulbs.....	35	3 50	25 00
13- to 15-inch bulbs.....	45	4 50	35 00

Lilium speciosum album

The white Speciosum, which is usually grown with Magnificum and *Lilium auratum*, is a very dainty Lily. It flowers outside in the border or among rhododendrons at the same time as Auratum and Magnificum, and is one of the most extensively cultivated varieties.

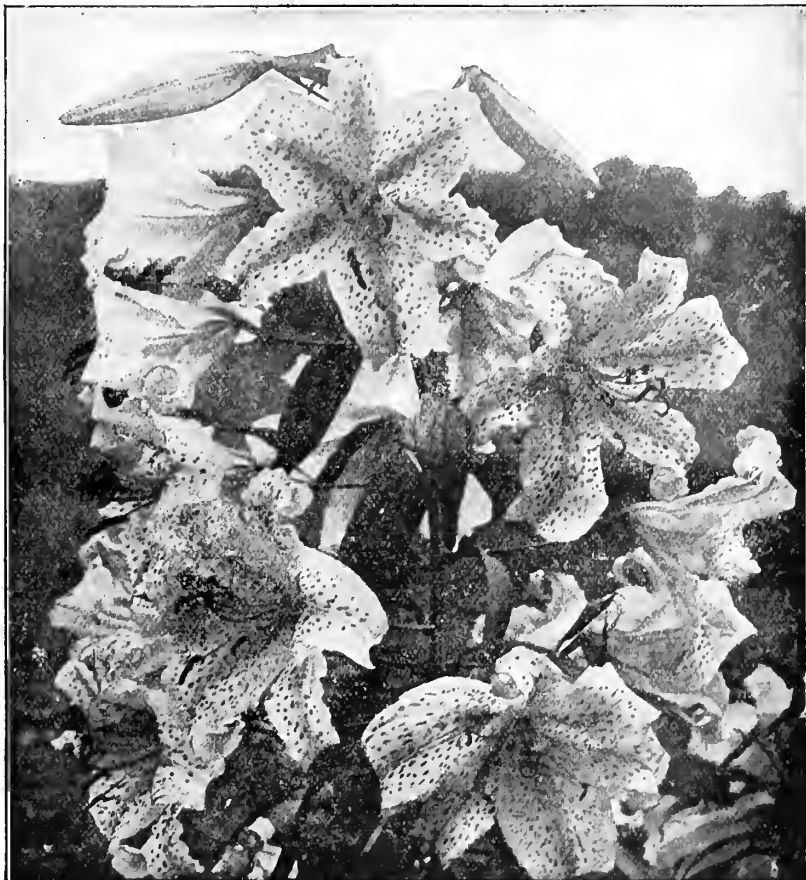
	Each	Doz.	100
8- to 9-inch bulbs.....	\$0 20	\$2 25	\$15 00
9- to 11-inch bulbs.....	35	3 50	25 00
11- to 12-inch bulbs.....	40	4 50	35 00

Lilium Henryi (The Yellow Speciosum)

A new and very beautiful hardy Lily from northern China. The plants are of vigorous growth, frequently attaining the height of 6 feet. This Lily is noted for its graceful habit and is an unusually excellent bloomer. It is thoroughly hardy, and, when well established, will increase rapidly. Color rich golden yellow, lightly spotted with brown, and in shape quite resembles the Speciosum types. Flowers during August. Choice bulbs, 70 cts. each, \$7 per doz., \$50 per 100.

Lilium Hansonii

Attains a height of 3 to 4 feet. Flowers reddish orange, eight to twelve in a cluster; petals thick and durable; a native of Japan and has always been high in price, but we have a stock of strong, home-grown bulbs that will give splendid satisfaction. Flowers during June. Choice bulbs, 50 cts. each, \$5 per doz., \$35 per 100.

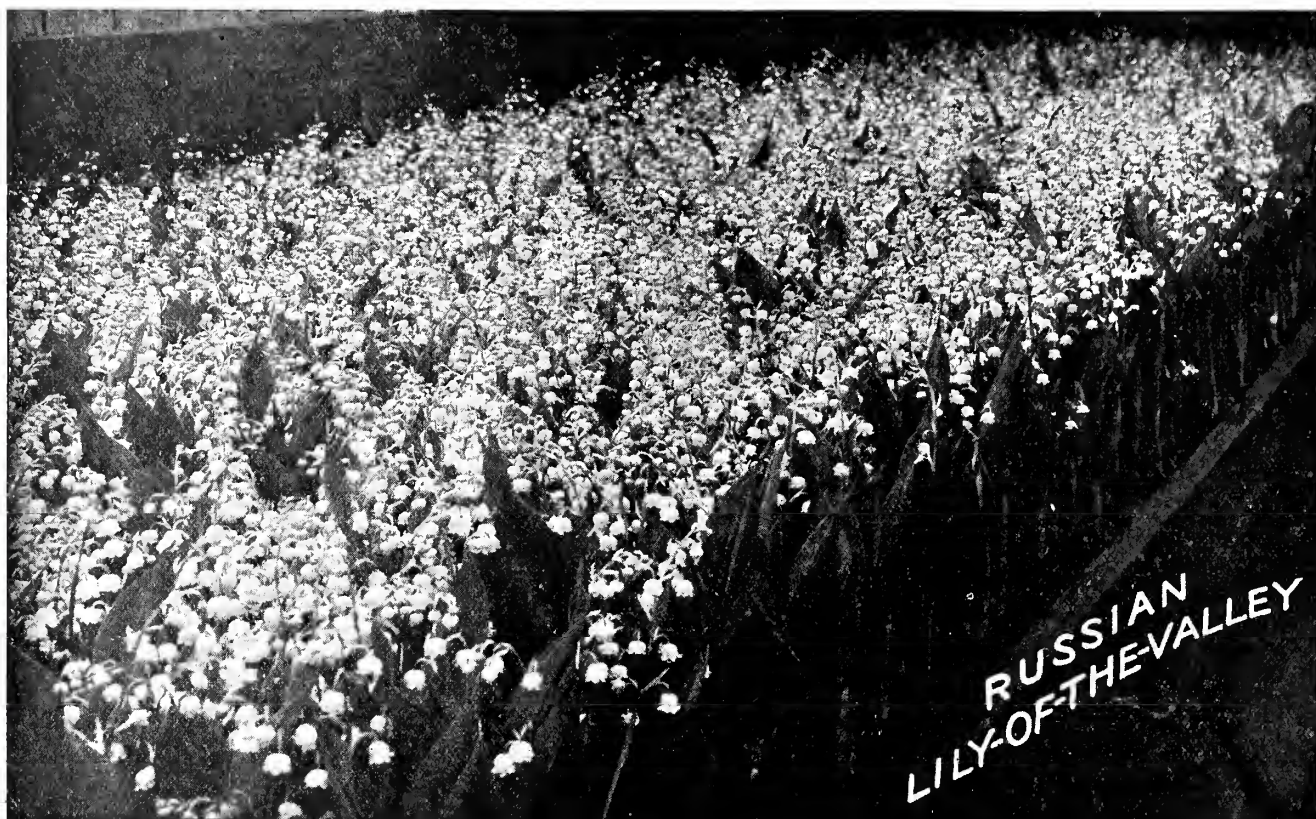


Lilium auratum (Golden-Rayed Lily of Japan)

OTHER HARDY LILIES

Suitable for Garden Culture

	Each	Doz.	100
Batemanii. A truly charming Japanese variety, growing 3 feet high, with six to eight apricot-colored flowers on a stem. Blooms in July and August.....	\$0 25	\$2 50	\$18 00
Canadense (Canadian Bellflower Lily). One of the most beautiful native Lilies; flowers bright yellow, with spots of red. Blooms in July and August.....	15	1 25	9 00
Superbum. In a collection of best plants of all countries, our native Superbum Lily would deserve a first place. In deep, rich soil it often grows 8 feet high, with twenty to thirty flowers. It is of the easiest culture, and may be grown as a wild flower in any swampy or rough part of a place where the grass is not mown. Extra-selected bulbs....	15	1 50	10 00
Tenuifolium. The lovely Coral Lily of Siberia. A great beauty; the brightest of all Lilies. Grows 20 inches high, with finely cut foliage, slender stems and beautifully shaded coral-red flowers. One ought to grow them by the dozen, they are so fine for cutting and making clumps for the lawn. Blooms very early.....	20	2 00	12 00
Tigrinum splendens. The finest type of the quaint and much-loved Tiger Lily. Large, selected bulbs.....	15	1 50	10 00
Tigrinum, Double. The double form of the above.....	20	2 00	12 00



RUSSIAN LILY-OF-THE-VALLEY CLUMPS

For Outdoor Planting

Our Lily-of-the-Valley Clumps are extra selected, well grown and, if planted outdoors by the middle of April, will flower splendidly during May. If grown under the proper conditions, these clumps will increase rapidly, and every spring produce a profusion of dainty flowers. Extra-strong clumps, 35 cts. each, \$3.50 per doz., \$25 per 100.

Russian Lily-of-the-Valley Pips

In judging the price of our Russian Lily-of-the-Valley, please remember that the best is the cheapest. Our Valley is positively among the best. Is bought at open prices, with instructions for a selection of the best-developed pips. Our long experience and large importations have commanded this extra selection. Introduced a few years ago, it has now become famous, being forced very extensively by a large number of celebrated Lily-of-the-Valley growers. The Russian Valley produces strong spikes of flowers, about 15 inches in height, bearing from twelve to twenty extra-large, pure white bells, which are delightfully fragrant. For forcing, these pips are the very best that can be planted. **New crop, November delivery, \$2.50 per 100, \$22 per 1,000.**

COLD-STORAGE RUSSIAN LILY-OF-THE-VALLEY PIPS

We are prepared to furnish our Russian Lily-of-the-Valley Pips during the entire year in original cases of

Lily Bulbs from Cold Storage

The following Lilies are repacked on arrival and put in cold storage for the convenience of our patrons who desire to have Lilies in bloom throughout the year. *Lilium longiflorum giganteum* is extensively forced by the florist trade all the year, and can be forced into bloom in four months; *Lilium speciosum* in four to six months. The main point in the culture of Lilies from cold storage is to keep the bulbs in a cool place or cellar, after potting, so as to produce the greatest root-action before bringing to the light.

For the convenience of our patrons we offer cases containing 50 and 100 Lily bulbs each, in order that they may place orders with us to have cases shipped at intervals throughout the year, thereby giving them a continuous supply of Lilies. As we frequently are sold out of some of the varieties by August, we ask our patrons to place orders as soon as possible that we may ship bulbs on the required dates.

Case of	
Lilium giganteum. 7 to 9 inches.....	100 bulbs.. \$15 00
Lilium giganteum. 9 to 10 inches.....	100 bulbs.. 22 50
Lilium giganteum. 10 to 12 inches.....	50 bulbs.. 15 00
Lilium speciosum magnificum. 9 to 11 in....	100 bulbs.. 20 00
Lilium speciosum magnificum. 9 to 11 in....	50 bulbs.. 12 50
Lilium speciosum magnificum. 11 to 13 in....	50 bulbs.. 17 50
Lilium speciosum album. 8 to 9 inches.....	100 bulbs.. 20 00
Lilium speciosum album. 9 to 11 inches.....	50 bulbs.. 15 00
Lilium auratum. 9 to 11 inches.....	75 bulbs.. 15 00
Lilium auratum. 11 to 13 inches.....	50 bulbs.. 15 00

We frequently receive orders for *Lilium speciosum rubrum* and *Lilium speciosum Melpomene*, which we have discarded in favor of *Lilium speciosum magnificum*, as it is superior for forcing and quite identical in form and coloring.

100 S. & W. Co.'s Famous Russian Valley for \$4	250 S. & W. Co.'s Famous Russian Valley for \$8	500 S. & W. Co.'s Famous Russian Valley for \$15	1,000 S. & W. Co.'s Famous Russian Valley for \$28	2,000 S. & W. Co.'s Famous Russian Valley for \$52
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GENERAL LIST OF BULBS AND ROOTS

AMARYLLIS

CULTURE.—Place the bulbs in live moss, only moderately moist, near a window of a warm room. Watch the bulbs carefully, and when the first sign of growth appears through the top, get a 6-inch pot and be ready to pot up. The soil should be a fairly rich one, and when set, most of the bulb should be above the soil. Be moderate in watering first, but increase as growth increases, then place in a warm, light room near the window, and the magnificent spikes usually appear in a short time.

Giant-flowering Vittata Hybrids. Conceded to be the most noble and magnificent section of the Amaryllidaceæ. The stock we have supplied for several seasons has been grown in Bermuda, the seed originally supplied by a most reliable hybridist of this plant. It would require a great amount of space to offer them with descriptions of the several representative types, so we confine ourselves to listing in two general classes—red ground, variegated with white; white ground, variegated with red. The red varies in tones from a brilliant fiery color to crimson, the variegation is sometimes a broad blaze of white in the center of each petal; again, the ground-color is white, abundantly streaked with red or crimson. The flower-spikes are from 1 to 3 feet high, the foliage long and graceful. Flowers borne in clusters, are often 8 inches across. **Extra-strong bulbs, 75 cts. each, \$8 per doz., \$60 per 100.**

Belladonna major. Fine variety for fall blooming; flowers are a lovely shell-pink. **15 cts. each, \$1.50 per doz.**

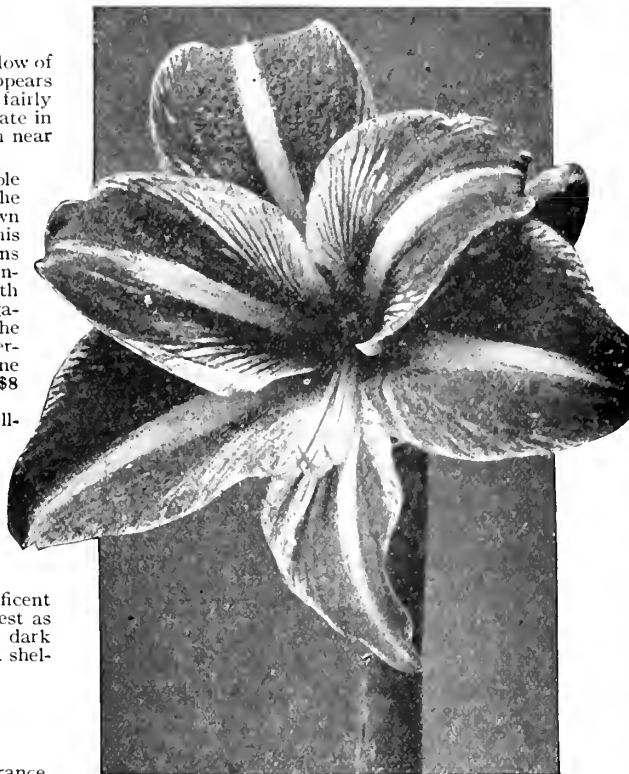
Johnsonii. Has immense, trumpet-shaped flowers, borne on strong, fleshy stems, and are of rich, deep, velvety crimson, each segment having a broad white stripe contrasting beautifully. **Mammoth bulbs, 50 cts. each, \$5 per doz.; selected bulbs, 30 cts. each, \$3 per doz.**

ANEMONE

St. Brigid. A new and greatly improved race of Irish production, bearing magnificent flowers, double, semi-double and single, 3 to 5 inches across, and of the richest as well as the daintiest colors, markings and blendings, all having a distinct, dark base. They have long stems; very graceful flowers for vases. Plant bulbs in a sheltered position outdoors during May, and they will bloom during July. **40 cts. per doz., \$2.50 per 100, \$20 per 1,000.**

APIOS TUBEROSA (Tuberous-rooted Wistaria)

Clusters of rich, deep purple flowers, which have a strong, delicious violet fragrance. **Tubers 10 cts. each, 75 cts. per doz., \$5 per 100.**



Amaryllis Johnsonii

BESSERA ELEGANS (Coral Drops)

If stored during winter in a dry place and planted in the garden in the spring, it can be grown with perfect ease; its umbels of bright coral-like flowers open in succession during fully two months of the late summer. The flowers are of vermilion-red, variously marked with white on the inner surface; bright purple anthers. Height 1 to 2 feet. **5 cts. each, 50 cts. per doz., \$3 per 100.**

CINNAMON VINE (Dioscorea Batatas)

A beautiful, rapid-growing summer climber, with bright green, glossy foliage, and spikes of deliciously cinnamon-scented, white flowers. It is perfectly hardy, the stem dying down in winter, but growing with great rapidity in the spring, so as to cover any trellis or arbor very early in the season. Large, select roots, 10c. each. **\$1 per doz., \$7 per 100; mammoth roots, 25c. each, \$2.50 per doz., \$15 per 100.**

CALADIUM ESCULENTUM

Elephant's Ear

One of the most effective plants in cultivation for beds, borders or for planting out upon the lawn. Very frequently used as border plant about suburban residences, where their large, rich green leaves afford an excellent embellishment when contrasted with the colors of the dwellings. Leaves often measure 3 to 4 feet long and 2½ feet wide.

	Each	Doz.	100
First-size Bulbs.....	\$0 10	\$1 00	\$6 00
Large-size Bulbs.....	20	2 00	10 00
Mammoth-size Bulbs.....	25	2 50	15 00
Jumbo-size Bulbs.....	50	5 00	35 00

Fancy-leaved Caladiums, see page 103.

Caladium Esculentum (Elephant's Ear)

CALADIUM ESCULENTUM (Elephant's Ear) should not be planted outdoors in the vicinity of New York before May. They may be started indoors in pots earlier and transferred outdoors when all danger of frost is past. If, however, bulbs are planted as received from us when the ground is fairly warm in May, rapid growth may be expected.



Bed of S. & W. Co.'s Tuberous-Rooted Begonias

Tuberous-Rooted Begonias

We are headquarters for Tuberous-Rooted Begonias; our stock being strictly selected bulbs of the highest possible quality. The opportunities offered by Tuberous-Rooted Begonias for the embellishment of the shady spots in every garden should specially suggest their use, and where grown as a pot-plant for greenhouse or conservatory decoration they are truly a most worthy subject. Thousands are annually planted in beds in our public squares and parks, as well as used for borders of beds. They will thrive in the open sunlight if care is taken to see that the soil is kept moderately moist. May be started indoors in February or planted out in dormant state in early May.

CULTURE.—A popular method of culture adopted by most amateurs is to provide a pan or box, and cover bottom surface to the depth of say one inch or two with sphagnum moss, placing the bulb immediately on top and then covering with still another layer of sphagnum moss. They should be kept moist and moderately warm. Plant in pots in a light but finely sifted soil, about one inch below the surface, and water cautiously until plant has shown considerable growth, then increase the amount. Good drainage is essential. A finely developed plant might consist of three bulbs planted in a 7-inch pot.

ERECT TYPE

(Large Bulbs 1½-inch and up)

SINGLE-FLOWERING BEGONIAS

This class of the Tuberous-Rooted Begonias are largely used for bed- or border-planting.

White	Pink	Dark Red
Yellow	Rose	Salmon
Red		

5 cts. each, 50 cts. per doz., \$4 per 100

Select mixture of all sorts, equal proportions, 5 cts. each, 45 cts. per doz., \$3.50 per 100

DOUBLE-FLOWERING BEGONIAS

This class of Tuberous-Rooted Begonias are largely used for pot culture and are graded the same as our Single-Flowering varieties.

White	Pink	Dark Red
Yellow	Rose	Salmon
Red		

10 cts. each; \$1 per doz., \$6 per 100

Select mixture of all sorts, equal proportions, 10 cts. each, 75 cts. per doz., \$5 per 100

Giant-Flowering Fringed Begonias

MONSTER BULBS

Beautiful giant blooms, with elegantly fringed edges, giving the flowers a most graceful appearance.

Orange	Red	Yellow
Rose	White	Salmon

Named kinds, 20 cts. each, \$2 per doz., \$15 per 100.

Special mixed, 15 cts. each, \$1.50 per doz., \$12 per 100.

FOUR BEAUTIFUL BEDDING BEGONIAS

The following four varieties of Tuberous-Rooted Begonias are splendid when grown as pot-plants for conservatory decoration, and the two beautiful double varieties, Lafayette and Duke Zeppelin, are splendid for bedding. These two varieties flower from early summer until frost and may be planted out in the open.

Lafayette

A bright dazzling shade of rich crimson-scarlet, the beautiful double flowers are borne well above the foliage. The plants grow about 10 inches high and are covered with blooms throughout the season. An excellent companion sort to Duke Zeppelin, but rather scarce this season, owing to a heavier demand. 25 cts. each, \$2.50 per doz., \$18 per 100.

Duke Zeppelin

This is also a very beautiful double variety with the same character of growth as Lafayette. It blooms equally as freely and is well suited for use as a pot-plant or for outdoor bedding. The tone of color is more of an orange-scarlet. 20 cts. each, \$2 per doz., \$15 per 100.

Surpasse Davisii. A very free-flowering double variety of a deep cherry-red color. The flowers are borne freely on straight stems. The plant has a somewhat bronzy appearance and is very effective. An excellent pot-plant variety. 15 cts. each, \$1.50 per doz., \$12 per 100.

Worthiana. This is a dwarf variety of *Begonia Bertini*, excellent and very free-flowering. It is a continuous bloomer, and the brilliant single red flowers are borne in great profusion. It will make an excellent bedding variety, and will also be found very useful for edging. 20 cts. each, \$2 per doz., \$12 per 100.

GLOXINIAS

This is, perhaps, one of the handsomest of summer-blooming, tuberous-rooted plants and should be grown more by the amateur than it has been. As a pot-plant for the window-garden it is grand. The main points to observe are, proper care in watering, good drainage and properly mixed soil.

The cultural directions given for Begonias on the preceding page might also be followed for starting and growing Gloxinias. One bulb is usually used for a 4-inch pot.

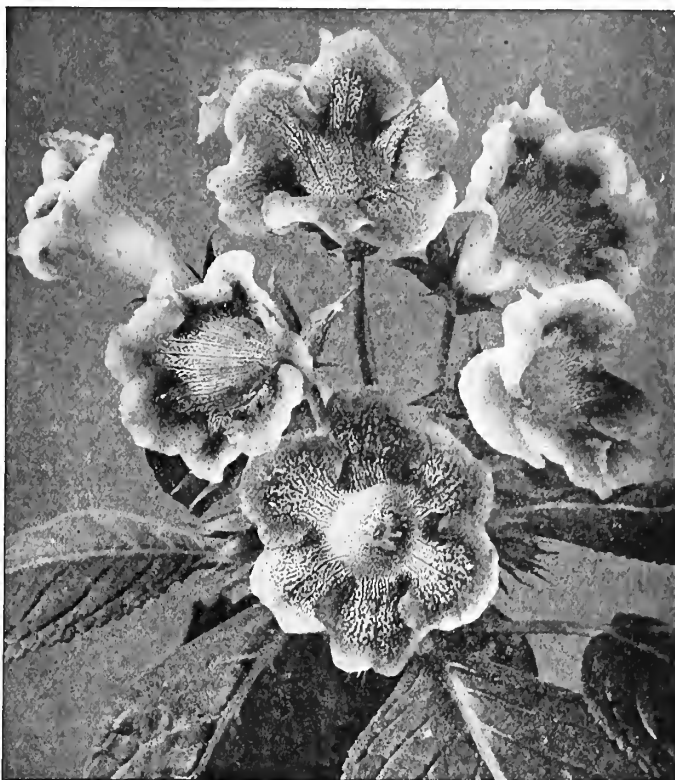
SELECT STANDARD SORTS

	Each	Doz.	100
Defiance. Bright crimson.....	\$0 15	\$1 50	\$12 00
King of the Reds. Dark scarlet.....	15	1 50	12 00
Madame Helene. White; violet crown..	15	1 50	12 00
Mont Blanc. Snow-white.....	15	1 50	12 00
Princess Elizabeth. White, bordered blue.....	15	1 50	12 00
Queen Wilhelmina. Dark rose.....	15	1 50	12 00
Violacea. Dark violet.....	15	1 50	12 00
Mixed. All colors, mixed.....	15	1 50	12 00

COLLECTION

1 bulb each, 7 varieties	\$0 85
6 bulbs each, 7 varieties	4 50
12 bulbs each, 7 varieties	8 00

Our list of Gladioli comprises many of the best varieties in commerce. They are American-grown (see pages 96, 97, 98).



Gloxinias

FANCY-LEAVED CALADIUMS

No other summer foliage plant equals the Fancy Caladiums in rich and gorgeous, yet soft, coloring. All of the varieties are of marvellous beauty for the furnishing of the conservatory during the summer months, for window-boxes or even for outdoor bedding in shady or semi-shady positions.

NEW AND RARE FANCY-LEAVED CALADIUMS

The set of twelve varieties offered below is unquestionably the choicest collection of these beautiful foliage plants ever brought together, showing a delicacy of coloring and variegation which has never been surpassed.

ADOLF JAENICKE. Creamy white with pure white spots and deep red ribs.

DIAGO BOTELHO. Deep vivid red center, creamy yellow border.

EDNA G. FULLER. Creamy ground-color. As the foliage matures it changes to transparent rose, ivory-white ribs.

EMILY NICHOLL. Deep metallic red.

HORTULANIA. Beautiful transparent rose with delicate white lines and narrow green border; one of the prettiest.

MRS. FANNIE STEMBRIDGE MUNSON. Ground-color deep violet-rose, deeper red midrib and veins, and a few green lines around the edge; one of the most exquisite.

MARS. Glowing red with metallic reflections.

MRS. H. L. BEEMAN. A new color—lavender suffused grayish green.

MRS. H. NEHRLING. A fine variety; milky white suffused with pink; deep red midrib and veins.

RIO DE JANEIRO. One of the finest; a transparent rose with white veins, moss-green spots and deep red ribs.

SPANGLED BANNER. Brilliant red center, the bronze-tinged glossy green border densely spotted with red.

THOMAS TOMLINSON. Deep transparent pink, suffused with white, narrow green border.

Any of the above, 50 cts. each, \$5 per doz.; the set of 12 for \$5

CHOICE STANDARD FANCY-LEAVED CALADIUMS

Candidum. White ground with strongly marked green ribs.

Hermione. Rosy red, suffused with deeper red and pink.

Eucharis. A soft satiny rosy pink with narrow green border.

Itacoatiara. Pink and rose, almost black ribs and veins.

Itapocu. Large red leaves with metallic reflections.

Itaqui. Pale rosy ground, red ribs; black stems.

John Peed. Deep glowing red center, narrow green border; a very excellent variety.

Lord Derby. Delicate mauve, densely veined, reticulated and edged with deep green.

Luddemannii. Red center, spotted white, green border.

Mme. Jules Picot. White, heavily splashed deep red; very beautiful.

Mithridate. Strong-growing variety; ground-color satiny pink and rose, deep red ribs and narrow green border.

Susan B. Wight. Rosy carmine ground-color, suffused violet; deep red ribs and narrow green border.

Any of the choice standard varieties, 25 cts. each, \$2.50 per doz.; the set of 12 sorts for \$2.50

CALLAS (Richardia)

The varieties offered below succeed best when treated in the same manner as gladioli, tuberose and other summer-flowering bulbs. They should be planted in the open border in a dormant condition when danger from frost is over in spring, and will then flower during the summer months. When the tops are killed by frost in the autumn, dig and store through the winter as you would potatoes.

Golden Yellow (*Richardia Elliottiana*). This is the best of the Yellow Callas, its flowers being as large as the popular white winter-flowering variety, and is of a rich, lustrous golden yellow of velvety texture; the foliage is dark green, with a number of translucent creamy white spots, which add much to its beauty. Strong bulbs 40 cts. each, \$4.50 per doz., \$30 per 100.

Spotted Leaf (*Richardia albo-maculata*). The leaves of this variety are deep green, with numerous white spots, which give the plant a very ornamental appearance. The flowers are white, with a black center. 10 cts. each, \$1 per doz.

DIELYTRA SPECTABILIS

Bleeding Heart

A well-known ornamental spring-flowering plant with green foliage, and bearing racemes of pink-and-white heart-shaped flowers. Plant as soon as the ground can be worked. They may be left undisturbed for years. By express only. Extra-large clumps, 25 cts. each, \$2.50 per doz., \$20 per 100.

HYACINTHUS CANDICANS

(Summer Hyacinth)

Luxuriant, free-growing summer-flowering plant; spreads 2 to 3 feet, throwing up great, tall spikes, 4 to 5 feet in height, each bearing twenty to thirty large, white, bell-shaped flowers. From our own personal trials we desire to advise our patrons against so-called "Jumbo" bulbs of this delightful plant, as this size frequently decays in the center after being planted. Choice bulbs, 10 cts. each, 75 cts. per doz., \$5 per 100.

OXALIS (Summer-flowering)

Valuable for edging walks, flower beds, etc. Bulbs planted 3 inches apart form rounded rows of delicate foliage, about 1 foot high, which produce flowers in endless succession.

Lasiandra. Rosy pink. Extra-fine, large flowers. 25 cts. per doz., \$2 per 100.

Depei. Pink-flushed lavender and crimson. 25 cts. per doz., \$2 per 100.

THE GREAT ISMENE

Those who are familiar with the true Giant Ismene cannot say enough in praise of its beauty and purity. The flowers are of a very large size, like an Amaryllis, of novel form and snowy whiteness, and are also exceedingly fragrant. It is really one of the most lovely of all the great Amaryllis tribe, having a peculiar grandeur, which one can appreciate at sight, but cannot describe. Bulbs are large and strong and begin to flower in two or three weeks after planting, sending up tall flower-stems, which bear several of its magnificent blossoms. The bulbs are not hardy, and should be taken up in the fall and stored in a suitable place until spring. Splendid pot-plants for the home. 25 cts. each, \$2.50 per doz.



HYACINTHUS CANDICANS.

LYCORIS SQUAMIGERA

Amaryllis Halli

The Magic Lily of Japan

A perfectly hardy Amaryllis bearing beautiful pink flowers. Produces in early spring attractive green foliage which grows until July, when it ripens off and disappears, and any one not familiar with its habits would think the bulb had died; but about a month later, as if by magic, the flower-stalks spring from the ground to a height of 2 or 3 feet, developing an umbel of large and beautiful lily-shaped flowers 3 to 4 inches across and from 8 to 12 in number, of a delicate lilac-pink, shaded with clear blue. As the bulb is perfectly hardy without any protection, it can be planted either in the fall or spring; but we consider the spring the best time as the bulbs will have splendid chance to get established before flowering time. Cover the crowns about 4 inches. As a subject for the hardy border or for planting among shrubbery, this is a most excellent subject and should be more generally grown. Strong-flowering bulbs, 20 cts. each, 3 for 50 cts., \$2 per doz., \$15 per 100.

MADEIRA VINE

Climbing Mignonette

A beautiful and popular vine, covering a large space in a short time. Fleshy heart-shaped leaves of a light green, and numerous racemes of feathery flowers of delicious fragrance. Protect with litter in this latitude. 5 cts. each, 40 cts. per doz.; by mail, 10 cts. per doz. extra.

MILLA BIFLORA

Mexican Star Flower

A beautiful summer-blooming bulb, for sunny positions. A row or bed of them is always in flower after the middle of summer and very attractive. Flowers star-shaped, 1½ inches across, clear waxy white, of great substance, enlivened by a frost-like sparkle; the fragrance is delightful. Place a stalk in water and the flowers will all open; we have seen eleven stalks shoot up successively from one bulb. The bulbs flower profusely and with great certainty. Height 12 to 18 inches. 5 cts. each, 50 cts. per doz., \$3 per 100.

EREMURUS ROBUSTUS

A noble and rare bulbous plant from Turkestan, and one of the choicest subjects for the permanent hardy border. They thrive best in a well-drained, sheltered sunny position, and prefer a deep, sandy loam to which has been added a liberal quantity of well-rotted cow manure. A covering of 4 or 5 inches of leaves or litter will be beneficial and save the young shoots, which start early, and are liable to be damaged by late frosts. It produces immense flower stems, 6 to 10 feet high, bearing a dense raceme of flesh-pink flowers, each nearly 2 inches across. Extra-strong flowering roots. 75 cts. each, \$6 per doz.

Himalaicus. Another noble variety, 4 to 8 feet high, from the temperate Himalayan mountains. Bears a splendid raceme, nearly 2 feet long, of lovely pure white flowers as large as a fifty-cent piece. This is perhaps the hardiest and easiest grown of this magnificent genus. Strong-flowering roots, 75 cts. each, \$6 per doz.



Dielytra spectabilis (Bleeding Heart)

If you grow Lily-of-the-Valley, why not try our Russian Brand?

MONTBRETIAS

The Montbretias are among the brightest of our summer-flowering bulbs, and deserve to be planted extensively. The bulbs should be set out during April or May, 3 to 6 inches apart, in clumps of a dozen or more. They should be protected during the winter with a heavy covering of leaves or litter.

SEVEN NEW GIANT-FLOWERING VARIETIES

The following six varieties of new, giant-flowering Montbretias should be grown by everyone desiring the best. The type is so distinct from existing kinds as to justify recognition as an entirely new race. The flowers are held erect, sometimes as much as 4 inches across, and are borne on stems 3 or 4 feet high.

FIRE KING. Splendid glowing scarlet-red, decidedly one of the most beautiful and compares favorably with any of the new and more expensive sorts. 5 cts. each, 40 cts. per doz., \$2.50 per 100, \$20 per 1,000.

GEORGE DAVIDSON. A splendid Montbretia. The stems are 3 to 4 feet high, eight-to ten-branched, bearing lovely, pale orange-yellow flowers 3 inches across; among the first to flower, and makes a glorious show in the garden. 5 cts. each, 50 cts. per doz., \$3.50 per 100, \$30 per 1,000.

GERMANIA. Grows from 3 to 4 feet high, producing graceful, free-branching flower-spikes, bearing very large, widely expanded flowers 2 to 3 inches across. The color is a rich, glowing orange-scarlet, with red throat. 5 cts. each, 40 cts. per doz., \$3 per 100, \$25 per 1,000.

GOLDEN WEST. This new variety, which is an improvement on Golden Sheaf, produces tall-branching spikes and large well-opened flowers, without the least spot or shade. A very strong grower and an excellent new variety in every way. 10 cts. each, 75 cts. per doz., \$5 per 100, \$45 per 1,000.

KING EDMUND. A very strong grower. The flowers are of very large size, and of a rich golden yellow, with brown markings in the throat. A very attractive variety. 10 cts. each, 75 cts. per doz., \$5 per 100, \$45 per 1,000.

KOHINOOR. One of the finest Montbretias of its color; very much admired in our trial collection this past year. The general tone of the flower is pure orange, with an apricot base; broad petals which are very shapely and open quite flat; a strong and very free-flowering variety. 10 cts. each, 75 cts. per doz., \$5 per 100, \$40 per 1,000.

MARTAGON. Very showy and neat, the flowers reflexed as in the Martagon lily; color pale yellow with orange throat. 10 cts. each, 70 cts. per doz., \$5 per 100, \$40 per 1,000.

THREE GOOD STANDARD SORTS

California. A beautiful, deep golden yellow, very recommendable; a profuse bloomer. 30 cts. per doz., \$2 per 100, \$18 per 1,000.

Star of Fire. Bright vermilion, center yellow, outside blood-red. 30 cts. per doz., \$2 per 100, \$18 per 1,000.



Montbretia Germania

Sunset. Golden yellow. 25 cts. per doz., \$1.50 per 100, \$12 per 1,000.

TIGRIDIAS

(Tiger, or Shell Flower)

These gorgeous summer-flowering bulbs look well associated with gladioli, lilies and kindred stock; grow about 1½ feet high and flower freely throughout the summer. They require the same treatment as gladioli and should be lifted in the autumn and dried off in the same way.

	Each	Doz.	100
Cœlestina. A splendid sky-blue.....	\$0 15	\$1 50	\$10 00
Pavonia grandiflora alba. Ivory-white, yellow center, spotted.....	10	75	5 00
Pavonia Canariensis. Primrose-yellow.....	10	75	5 00
Pavonia rosea. Rose-pink, yellow-variegated center.....	10	75	5 00
Pavonia speciosa. Deep scarlet.....	10	75	4 00
Pavonia, Le Geant. Splendid bright scarlet, rose-and-yellow center.....	15	1 50	10 00

Above prices, express prepaid

TUBEROSES

One of the most delightfully fragrant and beautiful of the summer-flowering bulbs. By skilful management a succession of flowers may be obtained all the year round. For early flowers they can be started in February or March in the greenhouse or hothed; and for a succession they can be planted at intervals as late as July. For flowering in the open border, plant about the middle of May, or as soon as the ground becomes warm.

Excelsior Double Pearl. First size, 5 cts. each, 50 cts. per doz., \$3 per 100. Mammoth hulbs, 10 cts. each, 75 cts. per doz., \$5 per 100, express prepaid.

Armstrong's. The single everblooming Tuberose. 5 cts. per doz., \$3.50 per 100.



Tuberose

BEST EVERBLOOMING ROSES

Our Roses are budded on the cultivated seedling English Briar; are exceptionally strong and worth ten times more than Roses grown on marshy, wet soil, such as are generally offered at a low price. This class of Roses are continuous bloomers the entire summer, but are not entirely hardy in this section, and should be protected during the winter months with a covering of straw or any handy material. To obtain the best results, in addition to the covering of the tops, protect around the roots with 5 to 6 inches of well-rotted manure. This will give added strength to the plants, and additional bloom the following summer.



Gruss an Teplitz Roses

GENERAL LIST OF EVER-BLOOMING ROSES

Alice de Rothschild. Rich, deep citron-yellow which intensifies as the blooms expand. This Rose belongs to the Tea family noted for the delicate fragrance and dainty coloring of its flowers.

Betty. Coppery yellow, overspread with golden rose; long, pointed bud and large, fairly full flower. When established this is a strong-growing and an unusually prolific variety.

Captain Christy. Delicate fleshy white, the center richer in color; very large and full; most useful early and late.

Dean Hole. Silvery carmine, shaded salmon; large, full flowers of fine form. A garden Rose of great merit.

Etoile de France (Star of France). Deep, velvety crimson; large petals of unusual substance; fragrant and of good form.

Gustave Regis. Canary-yellow; very long, pointed buds; good in autumn.

Juliet. Outside petals rich old-gold; interior rich rosy red.

La France. Beautiful bright pink Rose; large, full and fine form; free-blooming and one of the best, early and late; very highly perfumed.

Mme. A. Chatenay. Carmine-rose, shaded deep salmon; flowers fair size; very free.

Mildred Grant. Ivory-white with an occasional peach shading; enormous size and of wonderful lasting power in water. Magnificent exhibition variety.

Mrs. Edward Mawley. Bright carmine, shaded with salmon; a superb variety; chaste and perfectly formed flowers of marvelous beauty.

Mrs. W. J. Grant. Imperial pink; large flowers, well formed, with perfect high center; splendid.

Richmond. Deep, rich shade of crimson; splendid in bud form. Good bedding sort.

The Lyon. Easily recognized by its pleasing color. Flowers of large size, cup-shaped; warm coral-red with buff-yellow base.

White Killarney. Pure white, large flowers.

50 cts. each, \$5 per doz., \$40 per 100

TEN GRAND EVERBLOOMING ROSES

The following ten varieties have been selected with a view to giving the amateur Rose enthusiast an opportunity to get the best varieties that will give a goodly share of blooms throughout the summer and autumn months, as well as to meet the requirements of those wishing the best varieties to select from, and being limited as to the amount they can spend.

Caroline Testout. Large, full, globular flowers of bright satiny rose, center a trifle brighter; a grand bedding Rose.

Countess of Gosford. A splendid, extremely free-flowering Rose of large size and perfect form, with full, long, pointed buds of a beautiful salmon-pink, the base of petals suffused with saffron-yellow.

Gruss an Teplitz. A charming variety, of deep, rich scarlet, shading to velvety crimson. A variety that is extensively used for bedding purposes, where its magnificence of color and profuse-blooming quality continues to be a matter of much comment.

Jonkheer J. L. Mock. Although introduced only five years ago, this beautiful Rose has quickly found its place among our best bedding varieties. The flowers, which are produced with the greatest freedom on long, stiff stems, are of large size and of perfect form; of a deep imperial-pink, the outside of the petals silvery rose-white; highly perfumed.

Kaiserin Augusta Victoria. Soft, pearly white, shading to creamy yellow; very double and sweetly fragrant. The formation of the flower is exquisite; growth erect and strong. A distinct and beautiful Rose, possessing many sterling qualities. Highly recommended.

Killarney. Perhaps the most widely known and popular Rose in existence. Color bright, sparkling pink, shading to white; long, pointed buds, opening into a large well-formed flower; very fragrant, hardy and extremely free-flowering. A most desirable garden Rose.

Lady Ashtown. One of the freest-flowering varieties in the collection, and produces perfect blooms under all weather conditions. The flowers are large, double, with high-pointed center, and are produced on long stems; splendid for cutting; in color a soft rose, shading to yellow at the base of the petals.

Lady Faire. A very beautiful Rose; flowers are of good size and form, of a light carmine-rose color, suffused with salmon, shading lighter toward the edges.

Mme. Ravary. Should be in every collection on account of its distinct color, which is of a rich, deep nankeen-yellow, becoming lighter as the flower expands. The flowers are of splendid form, full, double and very fragrant.

Viscountess Folkestone. One of the first Hybrid Teas introduced, and still the best of its color, which is a creamy pink, shading deeper at the center; large, full and very free.

50 cts. each, \$5 per doz.; \$40 per 100

COLLECTION: One each of the 10 varieties, \$4.50

FOUR GRAND NEW ROSES

George C. Waud. A beautiful variety from the celebrated Irish growers, Alex. Dickson and Sons, possessing a shade of color hitherto unknown among Roses—a glowing vermilion with orange-red suffusion. The flowers are large, full, of perfect form and highly tea-scented; the plant is of vigorous growth and very free-flowering. 50 cts. each, \$5 per doz., \$40 per 100.

General Superior Arnold Janssen. Deep, glowing carmine; finely formed buds, carried on erect, robust stems; very fragrant. An excellent Rose for bedding and cut-flower purposes. 75c. each, \$7.50 per doz., \$55 per 100.

Lady Hillingdon. One of the most popular yellow Roses yet introduced. The color is true, clear yellow with orange shadings in the center. An excellent outdoor as well as indoor variety. 50 cts. each, \$5 per doz., \$40 per 100.

Molly Sharman Crawford. Introduced by the Messrs. Dickson about seven years ago as a Tea Rose. We have in our trials found it quite as hardy as the Hybrid Tea varieties, and we therefore include it in this set as the best white everblooming Rose. 50 cts. each, \$5 per doz., \$40 per 100.

TEN BEST HARDY GARDEN ROSES

These are specially grown for us by one of the leading rosarians of England, where Roses develop firm wood and fibrous roots. They are much better adapted to our severe and changeable climate than the soft-wooded plants grown on the meadows of Holland, so generally sold here, and which so frequently cause disappointment.

Roses should be planted with the diverging roots at least 9 inches below the surface of the ground, the soil made firm about them and liberally watered. Bear in mind that Roses are gross feeders. The ground can hardly be made too rich for them, and during their blooming season liberal applications of liquid manure will result in more and finer blooms. While these hardy Roses do not absolutely require protection in winter, they will be all the better for it. Do not cover them, however, until after the top of the ground is frozen. Dead leaves, old strawy manure, or any garden litter can be used for covering. Roses are not injured so much by cold weather as they are by the alternate freezing and thawing which occurs during our winters. The covering will overcome this by keeping the soil about the roots more equable in temperature.

Our collection comprises the most select sorts of all colors and of the finest form.

HYBRID PERPETUALS

This class of Roses are perfectly hardy and bloom during June with an occasional bloom in the autumn, and do not necessarily require protection in winter.

Alfred Colomb. Bright red, very large, full and globular; free-blooming and fragrant; a grand Rose.

Frau Karl Druschki. Snow-white; petals shell-shaped; very large, full, perfectly formed, opening well; a superb Rose.

General Jacqueminot. Brilliant crimson-scarlet, large and full; very fragrant. An excellent variety for all purposes.

Margaret Dickson. White, pale flesh center, petals very large, shell-shaped, and of immense substance, magnificent form; growth very vigorous. A very fine variety.

Magna Charta. Bright rose, very large and full; fine, early in the season.

Mrs. John Laing. Soft pink, very large and fine form; a good grower and abundant bloomer. A variety of special merit.

Mme. Gabriel Luizet. Light silvery pink; very free bloomer. A grand flower and quite distinct; best in early season.

Paul Neyron. Deep rose, flowers of enormous size, with fine foliage and growth.



Mrs. John Laing Rose



Frau Karl Druschki Rose

Hugh Dickson. Brilliant crimson shaded scarlet; large, very fragrant and free flowering.

Ulrich Brunner. Cherry-crimson, of large size, fine form. A good garden or exhibition Rose.

Price, 50 cts. each, \$5 per doz., \$35 per 100

COLLECTION, one each, ten varieties\$4 50

Soleil D'Or, or Golden Sun

A distinct type. A cross between Persian Yellow and a hybrid perpetual color varying from orange-yellow to reddish gold, shaded with nasturtium red; conical-shaped buds opening to large, full, flat-shaped flowers; perfectly hardy and free-blooming. 50 cts. each, \$5 per doz.

MOSS ROSES

These are Roses that are very attractive in the border or shrubbery planting. The buds are surrounded by a mossy covering that makes the flowers attractive and unique, and adds variety to the collection of Roses.

Blanche Moreau. Pure white; large, full and very fragrant.

Red Moss. The best of the type. Very hardy and vigorous.

50 cts. each, \$5 per doz., \$40 per 100

RAMANAS or RUGOSA ROSES

These lovely Roses form sturdy bushes 3 to 5 feet in height, covered with handsome, glossy green foliage and clusters of beautiful, fragrant, single flowers. They bloom nearly the whole summer, and are equally attractive during the autumn and winter when covered with their large, brilliant red seed-pods. Of healthy, vigorous growth, and equally desirable as specimens or a hedge. Require no pruning—merely cut out dead wood.

Rugosa. Rosy carmine; extra-large, single flowers.

Rugosa alba. Pure white; flowers contrast well with foliage.

Extra-strong 2-year-old plants, 40 cts. each, \$4 per doz., \$30 per 100

Hardy Climbing Roses

The following varieties of Rambler Roses, while few in number, might easily be considered as being among the very best. It is our aim to list only those of distinct merit. All Climbing Roses offered on this page are two- and three-year-old field-grown plants, and must not be confounded with inferior stock offered at cheap prices.

SUPERB RAMBLERS

American Pillar. A decided acquisition. This beautiful, single-flowering variety is a rare beauty, and one of the most talked-of recent introductions. The flowers, often measuring 3 inches in diameter, of a beautiful shade of pink, are borne in large clusters and last in perfection a long time. The beautiful green foliage is retained until late autumn in true color, giving the plant an artistic effect much its own. Extra-strong plants, 75 cts. each, \$7.50 per doz.

Climbing American Beauty. A fine new, free-blooming climber of excellent habit, strong and vigorous in growth, making heavy canes from 10 to 15 feet in a single season; rosy crimson flowers, produced freely in June and occasionally throughout the season; very fragrant; a fine Rose. Extra-strong plants, 75 cts. each, \$7.50 per doz.

Crimson Rambler. This favorite is well known; one of the first introduced; beautiful crimson; flowers borne in huge clusters. Large-sized plants, 50 cts. each, \$5 per doz.; extra-large, strong plants, 75c. each, \$8 per doz.

Dorothy Perkins. A splendid climber; bright, glossy foliage that always looks healthy, and beautiful clusters of pink flowers. It is highly recommended for general planting. Extra-large plants, 50 cts. each, \$5 per doz. XX large-size plants, 75 cts. each, \$7.50 per doz.

Goldfinch. We discarded the old yellow Rambler in favor of this new variety, in which we have a strong-growing plant with beautiful, glossy, insect- and disease-proof foliage. Flowers are of medium size, saffron-yellow, deepening to an almost golden yellow at the center. Strong plants, 75 cts. each, \$7.50 per doz.

Hiawatha. Decidedly the most brilliant scarlet. The flowers often measure 1½ inches across, and are produced on long, pendulous sprays, frequently having fifty flowers to the spray. Its clear white eye and golden stamens, combined with its dazzling scarlet color, make a sight of much beauty. Like American Pillar, its foliage remains a lovely shade of green until late autumn. Extra-strong plants, 50 cts. each, \$5 per doz.

Lady Gay. A variety of remarkably vigorous growth, flowers a delicate cherry-pink which gradually changes to soft tinted white. The effect produced by the combination of cherry-pink buds and the tinted white flowers, and the deep green of the foliage, is indeed most charming. Large-sized plants, 50 cts. each, \$5 per doz.; extra-large-sized plants, 75 cts. each, \$7.50 per doz.

Tausendschon. "A thousand times beautiful," is not overestimating the beauty of this new and distinct Rambler. The individual flowers are very large for this type of Rose, being fully 2 to 3 inches across, and of decidedly graceful form. Opening flowers pink, rosy carmine when expanded; are produced in large trusses of from ten to fifteen flowers. Extra-strong plants, 50 cts. each, \$5 per doz.

BEDDING ROSES

Baby Rambler. The best Bedding Rose; a continuous and free bloomer; very hardy and should be grown in every garden. 2-year-old plants, 50 cts. each, \$5 per doz.

Gruss an Teplitz. A charming variety, of deep, rich scarlet, shading to velvety crimson. A variety that is extensively used for bedding purposes, where its magnificence of color and profuse blooming qualities continue to be a matter of much comment. 50 cts. each, \$5 per doz.

TREE-SHAPED ROSES

The following five varieties are among the best. The stems are about 4 feet high, strong and straight.

Caroline Testout. Bright satiny rose; everblooming.

Frau Karl Druschki. Best pure white hybrid perpetual.

La France. Beautiful bright pink; everblooming.

Killarney. Bright pink; everblooming.

Ulrich Brunner. Cherry-crimson. Hybrid perpetual.

Strong plants, \$1.50 each, \$15 per doz.

HEDGE PLANTS

California Privet. One of the most satisfactory plants for hedges known at the present time. Glossy green foliage, easily kept in shape, and of fine symmetrical shape naturally.

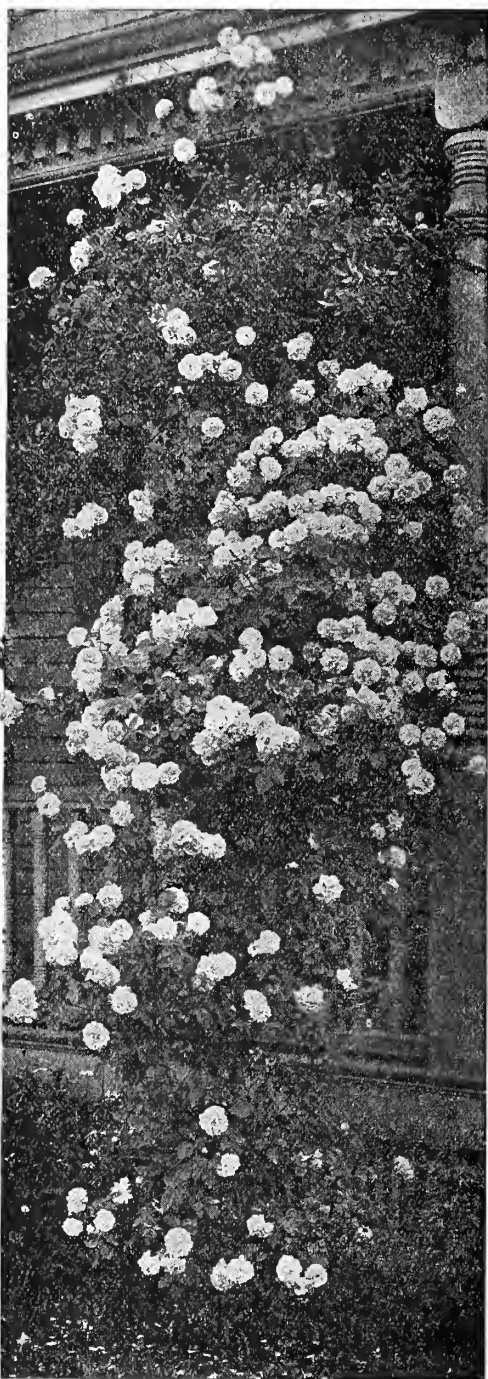
100	1,000
18 to 24 inches high, 2-year-old.....	\$3 50 \$30 00
24 to 28 inches high, 2-year-old.....	5 00 45 00
28 to 36 inches high, 3-year-old.....	7 00 65 00
36 to 40 inches high, 4-year old.....	9 00 80 00

All our Privet is extra fine and bushy, and is extra-well rooted. Special prices on large lots.

Berberis Thunbergii. From Japan. A pretty species of dwarf habit; small foliage, changing to a beautiful coppery red in autumn. Showy orange-yellow flowers in May, and succeeded by bright red fruit; very hardy, and the best low-growing hedge plant. Also valuable to grow as a shrub.

100
3-year-old plants, 12 to 15 inches high.....
4-year-old plants, 15 to 18 inches high.....
5-year-old plants, 18 to 24 inches high.....

Prices furnished on larger sizes and larger quantities, on application.



Dorothy Perkins Rose

HARDY CLIMBING PLANTS

Ampelopsis Veitchii Sometimes called Boston Ivy and Japan Ivy

This is the most deservedly popular of all climbing plants, being entirely hardy in the most exposed places and attaining a height of 30 feet in two or three years; clings to stones, brick or woodwork with the greatest tenacity. During the summer the leaves are a rich shade of green and lap over each other with great regularity, like a coat of mail or like slates on a roof. But it is in the fall that it shows its exquisite beauty. The leaves then change to the brightest tints of scarlet, crimson and orange, so dazzling as to be seen at a great distance. First-size plants, 25 cts. each, \$2.50 per doz.; extra-size plants, 35 cts. each, \$3.50 per doz.; pot-grown plants, extra-strong, 75 cts. each, \$8 per doz.

Aristolochia Sipho (Dutchman's Pipe)

A native species, of climbing habit and rapid growth, with magnificent light green foliage 10 to 12 inches in diameter, and curious, pipe-shaped, yellowish brown flowers. 50 cts. each, \$5 per doz.

Bignonia Radicans (Scarlet Trumpet Vine)

For covering unsightly places, stumps, rockwork or planting in crevices in ledges, the Bignonias will be found very useful. The flowers are large, attractive and showy, and borne profusely when the plant attains a fair size. 50 cts. each, \$5 per doz.

CLEMATIS

The Clematis we offer this season are exceptionally fine, strong 2-year-old plants. We have reduced the number of varieties to such sorts as, from experience, we know to succeed best in our climate. Many failures in the growing of Clematis are the result of too shallow planting. the crown of the roots should be set at least 3 inches below the surface of the soil.

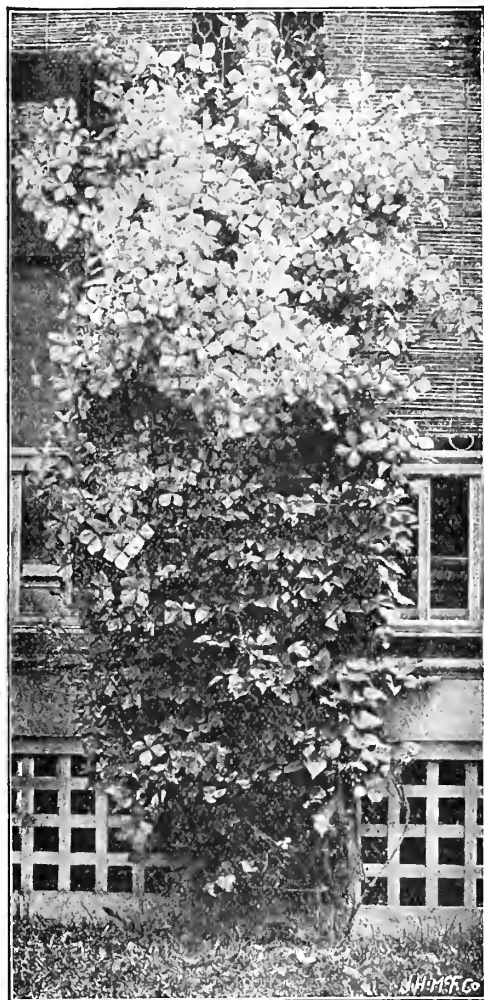
Small-Flowering Clematis

Paniculata (*Japanese Virgin's Bower*). This handsome hardy climber is one of the choicest and most satisfactory climbing flowering plants we know. The plant is of strong, rapid growth, with small, dense, cheerful green foliage, giving it a grace and elegance possessed by no other hardy climber. The flowers appear in the greatest profusion during August, and continue until late in the fall, are white in color and most deliciously fragrant. The plant succeeds in almost any position; not only is it well adapted to run up all kinds of supports, but is just as useful for planting among rockwork, sloping banks, covering graves, or, in fact, in any position where a graceful vine is desired. Selected, extra-strong plants, 50 cts. each, \$5 per doz.; strong 2-year-old plants, 25 cts. each, \$2.75 per doz.

Jackmani. The best known and most valued variety of this popular family. A perfect mass of bloom when in full flower. Color, dark, rich, royal purple. 50 cts. each, \$5.50 per doz.



Clematis paniculata



Clematis Jackmani

Large-Flowering Clematis

Henryi. Pure white; large and remarkably handsome. 50 cts. each, \$5.50 per doz.

Sieboldii. Lavender-blue; large, strong, vigorous grower. 50 cts. each, \$5.50 per doz.

Ville de Lyon. Bright red, well-formed flowers; a very fine variety. 50 cts. each, \$5.50 per doz.

Japanese Kudzu Vine

These roots are imported from Japan, and will, if planted early, grow 20 to 30 feet the first season. Very hardy and a first-class vine for general use. We offer selected, strong plants, for immediate effect, 50 cts. each, \$5.50 per doz.

HONEYSUCKLE

Halliana (Hall's Japan Honeysuckle). A strong, vigorous, almost evergreen sort; white flowers changing to yellow; very fragrant; flowering from July to December; holds its leaves nearly all winter. Extra-selected plants, 35 cts. each, \$4 per doz.

Scarlet Trumpet Honeysuckle. This and its varieties are the handsomest in cultivation. It is a strong, rapid grower and produces scarlet, inodorous flowers. 50 cts. each, \$5.50 per doz.

WISTARIA

Sinensis (Chinese Wistaria). A most beautiful climber of rapid growth. When well established it makes a growth of 15 to 20 feet in a season. Flowers pale blue. Extra-strong plants, out of 6-inch pots, \$1 each, \$10 per doz.

White. Extra-strong plants, out of 6-inch pots, \$1 ea., \$10 per doz.



Japanese Iris

JAPANESE AND GERMAN IRIS

The Japanese and German Irises are perfectly hardy, and flower in greatest profusion.

German Iris usually flowers in June and the Japanese in July, and attain their greatest perfection if grown in moist soil, or if plentifully supplied with water while growing and flowering. Our stock is *American-grown*, and no effort is spared to keep it true to name and color. They are thoroughly acclimated and hardy.

The varieties offered below have been chosen from a list of the finest Japanese and German sorts, which were tested out, and only the best and most distinct varieties grown. We offer below six of the best "double" varieties, or six-petal, and two of the "single," or three-petal sorts of Japanese Iris. Both are equally valuable as cut-flowers, for which purpose they should be cut in a bud state, permitting the blooms to expand after being placed in water. Our selection of German Iris consists of the eleven best varieties.

Delivery can be made at any time desired. Early fall, however, is the best time to plant, as it gives the plant a splendid chance to get established before winter sets in. We furnish plants with three or four shoots, and all will flower the first season after planting. A great mistake is made in planting unusually large clumps of Japanese and German Iris, as not infrequently they die out in the center of the clump during the first winter, thereby making an unsightly effect the following summer, and necessitating lifting, dividing and replanting.

JAPANESE IRIS (*Iris Kaempferi*)

Apollo. Single. White, pink center.

Distinction. Single. Light lavender-pink, bright yellow blotches at base of petals; distinct and fine.

Gold Bound. Double. Pure white; one of the best.

Mt. Hood. Double. Light blue, shaded darker, bright orange center; a very attractive variety.

Oriole. Double. Rich plum, shading to deep plum toward the center, brightly marked yellow.

Pyramid. Double. Lilac-blue, veined white in center of each petal.

Templeton. Double. Light violet shade, mottled reddish pink and white; often triple and exceedingly fine form.

Victor. Double. White, veined violet-purple, violet-purple center.

25 cts. each, \$2.50 per doz., \$15 per 100

GERMAN IRIS (*Iris Germanica*)

Pallida Delmatica. This is the grandest variety of all the German Irises. Color deep, clear lavender; very large flowers, sweet-scented. A grand variety; for massing in borders it is superb. 30 cts. each, \$3 per doz., \$20 per 100.

Admiral Togo. White, faintly tinged lavender; falls and standards lightly bordered purple. Similar in habit to Madame Chereau. Extra-fine, clear color.

Aurea. Beautiful, rich chrome-yellow; the finest variety of its color. 30 cts. each, \$3 per doz., \$20 per 100.

Brooklyn. Standards lavender, yellow at base; falls pale blue, base veined brown on white ground.

Flavescens. Clear self-color, canary-yellow.

Florentina alba. Excellent for cutting and an early bloomer. Waxy white, tinted lilac. The orris root variety of commerce.

Honorable. Intense yellow, falls a beautiful bronze.

Madame Chereau. Pure white, edged with azure-blue; falls deep white with blue penciling.

Parisensis. Uprights fine blue, falls deep blue; large and very early; fine companion to Florentina alba.

Pauline. Standards bright blue, falls a little darker.

Queen of May. A beautiful, soft rosy lilac, almost pink, a color rare among Irises.

Any of the above, except where noted, 25 cts. each, \$2.50 per doz., \$15 per 100



HERBACEOUS PEONIES TWENTY MODERN VARIETIES

Peonies rank among the most beautiful of all hardy perennials, and no garden is complete without their charming influence. The popular interest in many parts of the world has brought a very gratifying improvement in the Peony. In the newer sorts gigantic flowers have been produced, reaching, in many instances, the large size of 7 to 9 inches in diameter and 5 to 6 inches in depth, with strong, stiff stems $2\frac{1}{2}$ to 3 feet long. The permanency of Peonies should especially recommend them to your favor; for, once planted in suitable soil they will continue to grow better and larger each year.

CULTURE.—The culture of Peonies is quite simple. They require a good, deep, rich soil and an abundant supply of water during the growing season. When enriching the ground, the use of too much fresh manure near the roots should be avoided. The main point to observe is, while the ground should be well spaded and cultivated, **not to plant the roots too deep**. The roots should be planted so that the eyes are barely covered (about 1 to 2 inches). Too deep planting is the cause of shy flowering. **We offer strong 2-year-old roots.**

Alba-plena. Immense, pure white flowers; of robust habit and a very free bloomer.....	Each \$0 35	Doz. \$3 50
Berlioz. (Crousse.) Brilliant dark red, tinted rose; flowers very large size, imbricated. A fine dwarf grower; excellent keeper.....	50	5 00
Candidissima. (Calot.) Large, cream-white guard petals; center sulphur-yellow, with green heart, very full and compact; habit slightly drooping. The earliest of the white-and-yellow varieties.....	35	3 50
Couronne d'Or. (Calot.) Large, flat, semi-rose type; pure white, with a ring of yellow stamens around a tuft of center petals, tipped carmine. Medium tall, vigorous grower and free bloomer. Late.....	50	5 00
Duchesse de Nemours. (Calot.) Guard petals white, center lemon-yellow with greenish reflex. Large, cup-shaped, full bloom; fragrant.....	75	7 50
Duc de Wellington. (Calot.) Very large, well formed sulphur-white bloom; habit ideal; stems very firm and long. Strong grower; very fragrant. Scarce.....	75	7 50
Edulis superba. (Lemon.) Large, loose bloom of dark pink of even color, flat when fully open; fragrant; upright, strong-growing plant. Early.....	75	7 50
Festiva maxima. (Mieliez.) In some respects this is yet a peerless flower—Queen of the Whites. Though introduced more than fifty years ago, it is almost impossible to supply the demand. It is an immense white flower, with drops of carmine sprinkled in the center. An early bloomer and a good keeper.....	50	5 00
L'Indispensable. Lilac-white, shading to pale violet-rose toward the center. A variety of very delicate odor and a free bloomer as well as an excellent grower. Flowers midseason to late.....	1 00	10 00

Lady Bramwell. Although of unknown origin, a splendid Peony. Beautiful early flower of glossy pink; very fragrant.....	Each \$0 50	Doz. \$5 00
Louis Van Houtte. (Calot.) Rich, glowing purplish pink, tipped with silver; very brilliant coloring; fragrant, medium-large flower.....	50	5 00
Mme. Chaumy. (Calot.) Globular; soft pink, much like Lady Bramwell, only larger and later.....	50	5 00
Mme. de Verneville. (Crousse.) Very full bloom, sulphur-white, broad guard petals.....	75	7 50
Meissonier. (Crousse.) Globular; brilliant purplish red; slightly fragrant; free bloomer; stems long; habit of plant medium tall.....	75	7 50
Monsieur Barral. (Calot.) Very large, compact, rose type; uniform, pale lilac-rose; fragrant; free bloomer.....	75	7 50
Mons. Jules Elie. (Crousse.) Immense, globular, full flower, imbricated rosinform; broad petals of finest, glossy, flesh-pink, deeper tint at base of the petals.....	1 00	10 00
Queen Victoria. Large, full, compact bloom, with fine, broad guard petals; opens flesh-white, center petals tipped with red blotches. One of the best cut-flower varieties, as it is an exceptional shipper and keeper.....	50	5 00
Rosea grandiflora. Beautiful pale rose; large, globular flower; very fragrant.....	50	5 00
Rubra triumphans. (Guerin.) Very early; bright purplish crimson; large flower. Often blooms single the first year.....	50	5 00
Van Dyck. (Crousse.) Large, globular, loose-crown flower; guard petals and center pure mauve, collar cream-white. Erect grower; blooming in midseason.....	50	5 00



A border planted with Hardy Phlox, when established, makes a very beautiful and effective display

HARDY PHLOX

The Hardy Phloxes are, without doubt, the most important of all hardy perennials, and are now to be found in nearly every garden. They succeed in almost any kind of soil or position, and flower from early summer until late in the fall. They also improve from year to year, and contain a range of brilliant colors not found in any other hardy plant. We have a very fine collection of them.

CULTURE.—Hardy Phlox may be planted in spring or fall; a mulch of old manure thrown around the roots will be of benefit to the plants. Phlox should be set out 18 inches apart, and if kept well watered will produce both individual blossoms and heads of bloom far larger than otherwise, and amply repay the extra trouble. To procure best effects, plants should be massed in from six to twelve clumps of each variety.

Six Hardy Phloxes of Special Merit

It is difficult, out of the great number of varieties of Hardy Phlox, for the amateur who desires a limited number of varieties always to get the best. While all the varieties listed are entitled to a place in a good collection, the following 6 are in every way among the best.

Price, except where noted, 25 cts. each, \$2.75 per doz., \$20 per 100

Elizabeth Campbell. Very bright salmon-pink, with lighter shadings and a dark crimson eye. An entirely new and much-wanted shade in Phlox.

Europa. A white variety with very decided crimson-carmine eye; the individual flowers, as well as the trusses, are very large; entirely distinct.

Grideur. Ground-color a soft mauve-rose, heavily suffused and overlaid with a lively deep shade of cerise, giving the whole a beautiful mottled appearance.

Thor. A most beautiful and lively deep shade of salmon-pink suffused and overlaid with a scarlet glow and a light, almost white, halo around its aniline-red eye. This variety will undoubtedly hold the same place among deep salmon colors that Elizabeth Campbell holds among the light salmon-pinks.

W. C. Egan. One of the best and largest-flowering varieties in our collection. Panicles of immense size and of a delicate pleasing shade of lilac, which is illuminated by a large, bright solferino-red eye.

Wanadis. Entirely distinct. A mottling of white and light violet, reminding one of the native *Phlox divaricata*. The color is intensified by a bright reddish purple eye; a strong grower, producing trusses of immense size.

SPECIAL OFFER { 1 each of the above 6 varieties... \$1.25
COLLECTION ... { 3 each of the above 6 varieties... \$3.50

Ten Selected Standard Phloxes

Price of any of the varieties listed below, 15 cts. each, \$1.75 per doz., \$12 per 100

Antonin Mercie. Light ground-color, one-half of each petal suffused blush-lilac.

B. Comte. Medium. French purple, with crimson-carmine shadings.

Frau Anton Buchner. A splendid white variety.

Mme. Paul Dutrie. Tall. A delicate lilac-rose, reminding one of some of the beautiful soft pink orchids.

Obergartner Wittig. Medium. Bright magenta, with crimson-carmine eye; large flower and truss. One of the best.

Rosenberg. Bright reddish violet, with blood-red eye, large truss, and individual eye as large as a silver dollar.

R. P. Struthers. Tall. Rosy carmine with a claret-red eye.

Rynstrom. An improved form of the popular variety, Pantheon; fine for massing; of a Paul Neyron rose-color.

Siebold. Tall. Bright vermilion-red, overlaid with orange-scarlet; crimson-red eye.

Von Lassburg. Medium. The purest white in cultivation; individual flowers larger than in any other white.

Early-Flowering Hardy Phlox

Phlox suffruticosa

Miss Lingard. A grand variety, which begins flowering after the middle of June and continues throughout the season. Extensively used for cut-flowers. 20 cts. each, \$2 per doz., \$12 per 100.

Phlox subulata (Moss or Mountain Pink)

15 cts. each, \$1.75 per doz., \$12 per 100

An early spring-flowering type, with pretty, moss-like, evergreen foliage which, during the flowering season, is hidden under the masses of bloom. An excellent plant for the rockery, the border, and invaluable for carpeting the ground or covering graves.

Alba. Pure white. **Rosea.** Bright rose.
Bridesmaid. Purplish, tinted white.

HARDY PERENNIAL PLANTS

The following list of perennial plants contains most of the varieties that are usually needed. Our aim is to grow the varieties that are in greatest demand.

ACHILLEA

A very graceful plant with finely cut foliage. The flowers are fine for cutting, appearing the entire summer.

The Pearl. Flowers the entire summer on strong, erect stems 2 feet high; of the purest white.

Boule de Neige (Ball of Snow). An improvement on The Pearl; the flowers are of more perfect form with fuller centers, which make it appear purer in color.

20. cts. each, \$2 per doz., \$12 per 100

ACONITUM (Monkshood)

Bushy plants, having clusters of beautiful helmet-shaped flowers from August until frost. They are valuable for planting under trees or in shady or semi-shady situations.

Napellus. Large dark blue flowers in August and September. 25 cts. each, \$2.50 per doz., \$15 per 100.

Wilsoni. Novelty recently introduced from China. The graceful flower-spikes attain a height of about 6 feet, and produce many fine pale blue or violet flowers. It blooms from the beginning of September until the end of October. 25 cts. each, \$2.50 per doz.

AGROSTEMMA

Rose Campion

Stout, erect-growing plants with silvery foliage which contrasts well with the showy flowers that are produced during June and July.

Coronaria (Mullein Pink). Bright rosy crimson. 2½ to 3 feet. 20 cts. each, \$2 per doz.

ALYSSUM (Gold Dust)

Splendid edging plants, excellent for rockeries.

Rostratum (Madwort). Bright, golden yellow flowers in June and July; 1 foot. 25 cts. each, \$2.50 per doz.

Saxatile compactum (Basket of Gold, Gold Tuft, Rock Madwort). An indispensable plant for the rockery or border, growing 1 foot high, and producing, early in the summer, masses of broad, flat heads of bright yellow flowers. 20 cts. each, \$2 per doz., \$12 per 100.

NEW ANCHUSA ITALICAS

The Improved Italian Alkanet or Bugloss

Although introduced only a few years ago, the two Anchusas offered below have already become very popular. The rich blue tones of their flowers fill a vacancy in this color, of which there is never a superabundance, particularly during their flowering period, which covers the months of May and June. They form much-branched specimens 3 to 5 feet high, each branch terminated by a large, pyramidal, graceful spike of blue flowers, and while the habit of the plant is strong and vigorous it is not at all coarse. Of easy culture in any good garden soil and a sunny position. Very effective either in solid beds or in the hardy border.

Dropmore Variety. Rich gentian-blue.

Opal. A splendid lustrous light blue.

25 cts. each, \$2.50 per doz., \$18 per 100

ANEMONE JAPONICA

Japanese Windflower

These beautiful Windflowers are among the most important hardy plants. While they begin blooming in August, they are more especially valuable on account of their continuing in full beauty until cut down by hard frost. All are excellent for cutting, lasting in good condition for many days. The plants grow 2 to 3 feet high, are perfectly hardy if given the protection of 2 or 3 inches of leaves or litter during the winter, and, while they respond freely to liberal feeding, they will succeed in any ordinary garden soil, increasing in beauty from year to year. They can be used in solid beds or borders or clumps planted through the hardy border, which they brighten during the late fall months.

Japonica alba. Large; snowy white; very chaste.

Japonica rubra. Beautiful rosy red, stamens bright yellow.

Prince Henry. Large, very double, deep rich pink flowers; free-flowering.

Queen Charlotte. Very large, semi-double flowers of La France pink, a color that is rare among hardy plants.

Rosea superba. Flowers of medium size, of a delicate silvery rose.

Whirlwind. Large, semi-double, pure white flowers; very free.

Any of the above, 20 cts. each, \$2 per doz., \$12 per 100

AQUILEGIAS (Columbines)

The Columbines are among the most elegant and beautiful of hardy plants, producing their graceful, spurred flowers on stems rising 2 feet or more above the beautifully divided foliage.

They are not at all particular as to soil or location, although they prefer a sandy loam and a moist but well-drained, sunny position, and usually make themselves at home in any hardy border or rockery. Their period of flowering covers the late spring and early summer months. Taken as a whole, they are a most important part of the hardy garden, and should be grown in quantity by every lover of old-fashioned garden flowers.

Canadensis (Common American Columbine). The native red-and-yellow variety; one of the brightest.

Chrysantha (Golden Columbine). Bright yellow, long-spurred flowers.

Chrysantha alba. A long-spurred, white variety.

Helenæ (Golden Columbine). Bright yellow, long-spurred flowers.

Truncata. Scarlet, tipped yellow; very distinct.

Vulgaris (Common European Columbine). Violet-blue; a strong, vigorous grower.

Any of the above, 20 cts. each, \$2 per doz.

ARABIS (Rock Cress)

Alpina. One of the most desirable of the very early spring-flowering plants that is especially adapted for rock-gardens. The flowers are pure white. 20 cts. each, \$2 per doz. \$12 per 100.

BOCCONIA (Plume Poppy)

Cordata. A noble hardy perennial, beautiful in foliage and flower, admirably adapted for planting in the shrubby borders, center of beds, and in bold groups in almost any position. It will grow in any soil or situation, attaining from 6 to 8 feet in height; flowers in terminal panicles, of a creamy white, during July and August. 20 cts. each, \$2 per doz., \$12 per 100.

BOLTONIA (False Chamomile)

Among the showiest of our native hardy perennial plants, with large, single, aster-like flowers. The plant is in bloom during the summer and autumn months, and with its thousands of flowers open at one time produces a very showy effect.

Asteroides. Pure white; very effective; 5 to 7 feet.

Latisquama. Pink, slightly tinged with lavender; 4 to 6 feet.

20 cts. each, \$2 per doz., \$12 per 100

CHELONE (Shell Flower)

Stately and handsome perennials, growing about 2 feet high and bearing numerous spikes of large flower-heads during the summer and fall.

Glabra alba. Terminal spikes of creamy white flowers.

Lyonii. Heads of deep red flowers.

25 cts. each, \$2.50 per doz.



Long-spurred Aquilegias

HARDY PERENNIAL PLANTS, continued

CAMPANULA

Bellflower

This is a very showy genus of biennial and perennial plants. Some are tall and are excellent for beds or borders, others dwarf, being suitable for rockeries. They delight in a good rich loam, preferring a semi-shady place. All the taller varieties should be staked to prevent them from being broken during windstorms.

Carpatica (Carpathan Harebell). A pretty species, growing in compact tufts not exceeding 8 inches high; flowers clear, blue held erect on wiry stems. It begins blooming in June, continuing until October. As an edging for a hardy border or for the rockery it is unsurpassed. 20 cts. each, \$2 per doz.

Carpatica alba. The white-flowered form of the preceding. 20 cts. each, \$2 per doz.

Media (Canterbury Bells). This is a biennial variety. It flowers freely during June and July, growing 3 to 4 feet high, and blooming very profusely. We offer in separate colors of Blue, Pink, and White, also Mixed. 25 cts. each, \$2.50 per doz., \$15 per 100.

Persicifolia (Peach Bells). Extremely hardy, making a great display during June and July. The flowers are borne on stately spikes often exceeding 4 feet.

Persicifolia alba. White. 25 cts. each, \$2.50 per doz.

Persicifolia cærulea. Blue. 25 cts. each, \$2.50 per doz.

Persicifolia gigantea Moerheimi. A grand sort, with spikes of double, pure white, camellia-like flowers, 2 to 2½ inches in diameter; in bloom from the middle of May till late in July. 30 cts. each, \$3 per doz.

Pyramidalis (Chimney Bellflower). The most conspicuous of all Campanulas, forming a perfect pyramid 4 to 6 feet high, crowded with large, salver-like, blue flowers in August. 25 cts. each, \$2.50 per doz.

**HARDY
CHRYSANTHEMUMS**

In this list we offer the best of the hardy Early-flowering and later-flowering Pompon types. These are selections made from the best varieties.

**Hardy Early-flowering
Chrysanthemums**

The selection we offer of this popular section of the Chrysanthemum family has been made after testing in our trial-grounds and by field culture the large assortment of varieties covered by this type. We believe we have selected those which cannot fail to give satisfaction and which will bloom early enough to display their wealth of flowers before the hard frosts. We have eliminated those varieties which have not on the 15th of October shown their finished flowers. These varieties should make a gorgeous showing in early fall if planted in good, rich soil that is well drained. With slight protection they will prove hardy in New England, if planted in well-drained soil.

Aquitaine. Salmon-bronze in color; medium dwarf.

Chaldon. Large flowers, reddish crimson in color, with gold tips to the florets.

Cranfordia. Large, pure yellow flowers; tall; rather late.

Cranford's Pink. Large, shell-pink flowers; tall.

Cranford's White. Large, white flowers, shell-pink when grown in open; medium height

Goacher's Crimson. Very large flowers, bright crimson in color; dwarf growth.

Glory of Seven Oaks. Golden yellow; dwarf growth; very free-flowering.

Leslie. Golden yellow in color; very free-flowering; early.

Maduse. Terra-cotta-bronze in color; large flowers; medium height.

Mme. Aug. Nonin. Large, delicate pink flowers; medium dwarf.

Miss F. Collier. The best pure white; medium dwarf.

Wells' Scarlet. Reddish terra-cotta; large; medium dwarf.

Price, any of the above from 2¼-inch pots, 15 cts. each, \$1.50 per doz., \$12 per 100.

Hardy Pommoms

There is a great demand for Pommoms that will mature in the garden, and we are offering a list of varieties which we have tried and found to be perfectly hardy. The blooms will withstand the frost and mature; often cut as late as November 20. We offer nice plants of the following varieties from 2¼-inch pots for delivery April 15 to June 1.

15 cts. each, \$1.50 per doz., \$12 per 100



Hardy Early-flowering Chrysanthemums, Aquitaine

HARDY POMMONS, continued

Brown Bessie. Medium dwarf; reddish bronze; of the button type.

Doris. Reddish bronze; of the button type. Fine.

Elva. A pure white Pompon.

Fairy Queen. Clear pink in color; nicely formed flowers; comes into flower about October 20.

Golden Climax. Large golden yellow; excellent for cutting in sprays.

Golden Harvest. A medium variety of the button type; golden yellow tinged bronze.

Harvest Moon. One of the finest yellow button type.

Julia Lagravere. Deep red in color and very late. The best variety of its color.

Lilian Dotty. Beautifully formed, shell-pink flowers, produced in abundance on stems strong enough to hold the flowers erect.

Minta. Small pink button Pompon.

Nesco. Old-rose in color; matures about October 20; in form of the button type but larger.

Skibo. A golden yellow Pompon of the button type.

SHASTA DAISY

Chrysanthemum leucanthemum

Burbank's "Alaska." A decided improvement on the original; very free-flowering, with blooms 4½ to 5 inches across, of pure glistening white. 25c. each, \$2.50 per doz.

Burbank's Mixed Seedlings. All have large, snowy white flowers in bloom continuously throughout the entire summer and fall. 20c. each, \$2 per doz., \$12 per 100.

If you are interested in the best varieties of Chrysanthemums for greenhouse culture, see page 124



Hardy Pompon Chrysanthemums, Brown Bessie

STUMPP & WALTER CO.'S SELECTED PLANTS

HARDY PERENNIAL PLANTS, continued

DELPHINIUMS

Belladonna. The freest and most continuous blooming of all, never being out of flower from the end of June until cut down by hard frost. The clear turquoise-blue of its flowers is not equaled for delicacy and beauty by any other flower. 25 cts. each, \$2.50 per doz., \$15 per 100.

Chinense. A very pretty dwarf variety, with fine, feathery foliage and intense gentian-blue flowers in open panicles. 20 cts. each, \$2 per doz., \$12 per 100.

Chinense album. A pure white form of the above. 20 cts. each, \$2 per doz., \$12 per 100.

Formosum. The old favorite dark blue with white center; 3 to 4 feet high. Very vigorous, free-flowering and one of the best. 25 cts. each, \$2.50 per doz., \$15 per 100.

King of Delphiniums. One of the most distinct of the newer hybrids; the plant is of remarkably strong growth, with flowers of gigantic size, semi-double and of a deep blue color with large white eye. 75 cts. each, \$7.50 per doz.

Moerheimi. This new variety is the first really white hybrid Delphinium introduced, and is a decided acquisition. The plant is of strong, vigorous growth, 5 feet high, the lateral or side shoots $2\frac{1}{2}$ feet high. The flowers are of purest white, without the slightest shading; a free and continuous bloomer from June till frost. 35 cts. each, \$3.50 per doz.

Rev. E. Lascelles. This grand new sort is one of the finest yet introduced; plant very strong, growing 6 feet high; immense, very double flowers of a deep purple-blue with clear white center. \$1 each, \$10 per doz.

DIELYTRA SPECTABILIS

See page 104

DIGITALIS (Foxglove)

The Foxgloves, old-fashioned, dignified, and stately, are a wholesome company in any garden. The strong flower-stalks—frequently 4 to 6 feet high—rising from rich and luxuriant masses of leaves, always give an appearance of strength to the hardy border, and during their period of flowering dominate the whole garden.

Gloxiniiflora (Gloxinia-flowered). A beautiful strain of finely spotted varieties. We offer them in White, Purple, Lilac, Rose, or Mixed. 20 cts. each, \$2 per doz., \$12 per 100.

DORONICUM (Leopard's Bane)

One of the most effective very early spring-flowering perennials, growing about 2 feet high. If placed in pots in the fall, they can readily be forced into flower during the winter months in the conservatory or window-garden. There are many who have seen this only as a single plant, here or there in a hardy border, and have no idea of the effect it has when planted in a mass. It is also a splendid flower for cutting, as it carries well and stands a long time in water, opening out morning after morning, to the surprise and delight of the possessor. They succeed everywhere.

Clusii. Rich yellow; $2\frac{1}{2}$ to 3 inches across. Very striking when planted in mass.

Excelsum. Large; orange-yellow; $3\frac{1}{2}$ inches across.

25 cts. each, \$2.50 per doz., \$15 per 100

EUPATORIUM

Ageratoides (Thoroughwort). A useful border plant of strong, free growth, 3 to 4 feet high, with minute white flowers in dense heads; splendid for cutting. August and September.

Celestinum. A pretty, hardy plant, with light blue flowers similar to the ageratum; in flower from August until frost; 18 to 24 inches.

20 cts. each, \$2 per doz., \$12 per 100

GAILLARDIA

Grandiflora. One of the most effective and showiest hardy flowering plants, with gorgeous flowers of bright yellow and orange, with deep crimson center. 18 inches. All summer. 20 cts. each, \$2 per doz.

GEUM (Avens)

Pretty border plants, growing about 18 inches high, and producing showy, bright-colored flowers the greater part of the summer and fall.

Coccineum. Brilliant scarlet flowers. 25 cts. each, \$2.50 per doz.

GYPSOPHILA

Baby's Breath

Paniculata. An elegant, light and graceful perennial, forming a mass of thread-like stems, with an abundance of small, white flowers. 2 to 3 feet. July and August. 20 cts. each, \$2 per doz.

Paniculata fl.-pl. This beautiful plant, which we consider to be the very best novelty that has been raised in the last few years, grows about $3\frac{1}{2}$ feet high and its pure white flowers are perfectly double. They are produced in large quantities, and the plant is at least as graceful as the ordinary variety, so that it is of great value for decoration and cutting purposes. It is perfectly hardy. 30 cts. each, \$3 per doz.

HELENIUM (Sneezewort)

All of these are desirable border plants, succeeding in any soil in a sunny location, with broad-spreading heads of flowers.

Autumnale superbum. Golden yellow flowers during the late summer and fall months. 5 to 6 feet.

Autumnale rubrum. New terra-cotta-red variety. 25 cts. each.

Riverton Beauty. Rich lemon-yellow, with large, purplish black cone.

Riverton Gem. Old-gold, changing to wall-flower-red.

25 cts. each, \$2.50 per doz., \$15 per 100

HELIANTHUS

Hardy Sunflower

The perennial Sunflowers are among the most effective hardy plants for larger borders. **Maximilian.** The latest of all, perfecting its fine golden yellow flowers in long, graceful sprays during October, when all others have finished flowering; invaluable for cutting. 5 to 7 feet. 20 cts. each, \$2 per dozen, \$12 per 100.



Delphiniums

HELIOPSIS (Orange Sunflower)

Similar in general habit to Helianthus, but commencing to flower earlier in the season; of dwarfer habit, rarely exceeding 3 feet in height; very valuable for cutting.

Pitcheriana. Flowers early and all summer.

The flowers are of a beautiful deep golden yellow, about 2 inches in diameter, of very thick texture and a useful cut-flower. 20 cts. each, \$2 per doz., \$12 per 100

HEMEROCALLIS

Fine, tall-growing plants, with sweet-scented, lily-like flowers.

Aurantiaca major. Sweet-scented; trumpet-shaped; deep orange color. 3 feet. July and August. 30 cts. each, \$3 per doz.

Flava (Yellow Day Lily). The best known variety; very fragrant, deep lemon-yellow flowers in June and July. Height $2\frac{1}{2}$ to 3 feet. 20 cts. each, \$2 per doz.

HEUCHERA

Alum Root, or Coral Bells

Most desirable, dwarf, compact, bushy plants of robust constitution and easy culture, growing $1\frac{1}{2}$ to 2 feet high, and bearing during July and August loose, graceful spikes of flowers in the greatest profusion; excellent subjects either for the border or rockery, and of great value for cutting.

Pluie de Fleu. Bright raspberry-red; very free.

Rosea. Rose-colored.

Sanguinea. Bright coral-red.

Sanguinea alba. Creamy white.

25 cts. each, \$2.50 per doz., \$15 per 100

HARDY PERENNIAL PLANTS, continued

HOLLYHOCKS

The Hollyhock is a stately, majestic, hardy plant which grows from 6 to 8 feet in height and is a necessary part of every old-fashioned garden. They are splendid for interspersing among shrubbery, as clumps on the lawn or in the mixed border.

They thrive best in soil that is not too wet, and which is thoroughly enriched with well-decayed horse-manure or sheep-manure. A slight protection throughout the winter will prove beneficial. An occasional spraying with bordeaux mixture, which should be applied early in the growing-season, usually prevents the disease which is prevalent in some localities.

Double White
Double Maroon
Double Rose

Double Newport Pink
Double Yellow
Double Mixed

25 cts. each, \$2.50 per doz., \$15 per 100

Single. Many prefer the single-flowering Hollyhocks. They are usually of freer growth than the doubles, and present a very handsome appearance when covered with their artistic blossoms. Choicest mixed varieties in all colors. 25 cts. each, \$2.50 per doz., \$15 per 100.



Double Hollyhocks

IBERIS (Hardy Candytuft)

This is a very desirable plant with evergreen foliage, which is completely hidden in early spring with dense masses of pure white flowers. It is very pretty even when out of flower. Grows about 10 inches high. Splendid for borders or rockeries.

Sempervirens. Innumerable flat heads of pure white flowers. 20 cts. each, \$2 per doz., \$12 per 100.

LOBELIA (Cardinal Flower)

Handsome border plants thriving in any ordinary garden soil, but preferring a moist, deep loam, where they will not suffer from drought. Few plants are more effective at their season of bloom, which extends from early in August till late in September.

Cardinalis. Rich, fiery cardinal flowers; strong plants, often producing ten to eighteen spikes, 12 to 24 inches long. 20 cts. each, \$2 per doz., \$12 per 100.

LUPINUS

Very effective hardy plants growing about 3 feet high. If planted late in April, will bloom in late May or early June. They are perfectly hardy and free from insect pests. They require well-prepared garden soil and should be kept watered in dry weather, which should be done late in the afternoon.

Polyphyllus (Lupine). Very effective, hardy garden plant. May be planted in fall or early spring. Clear blue. 25 cts. each, \$2.50 per doz., \$15 per 100.

Polyphyllus albus. A white variety of above. 25 cts. each, \$2.50 per doz., \$15 per 100.

Polyphyllus Moerheimii. A comparatively new variety and a plant that, on account of its clean bold growth, always attracts attention. The spikes of flowers are frequently over a foot long, in color superb, being a combination of light and dark shades of pink without a trace of magenta. 35 cts. each, \$3.50 per doz.

LYCHNIS

Campion

All of the Lychnis are of the easiest culture, thriving in any soil, and this, in addition to their brightness, has brought them into high favor with lovers of hardy plants. Perhaps no class of plants has more common or popular names, of which the following is but a partial list: Campion, Jerusalem Cross, Lamp Flower, Maltese Cross, Ragged Robin, etc.

Chalcedonica. A most desirable plant; heads of brilliant orange-scarlet in June and July. 2 to 3 feet. 25c. each, \$2.50 per doz.

LYCHNIS, continued

Chalcedonica fl.-pl. A double-flowering form, producing immense heads of vermilion-scarlet flowers, far exceeding in brilliancy the brightest geraniums. Flowers in June and July. A gem for cutting, and one of the showiest border plants. 2 to 3 feet high. 35 cts. each, \$3.50 per doz.

Vespertina, Double White. Large double white flowers, produced in the greatest profusion the entire summer. 18 inches. 35 cts. each, \$3.50 per doz.

Viscaria, Double Red. Forms a dense tuft of evergreen foliage, and in June sends up spikes of handsome, double, deep red, fragrant flowers. 1 foot. 25 cts. each, \$2.50 per doz.

MONARDA (Bergamot)

Showy plants, growing from 2 to 3 feet high, succeeding in any soil or position, with aromatic foliage, and producing their bright flowers during July and August.

Didyma, Cambridge Scarlet (Oswego Tea). Brilliant crimson-scarlet. 20 cts. each, \$2 per doz.

PENTSTEMON

Beard Tongue

Most useful showy perennials, either for the border or rockery. With the exception of *Sensation*, they are perfectly hardy.

Gloxinioides, Sensation. A beautiful strain, bearing spikes of large, gloxinia-like flowers in a great variety of bright colors, including rose, cherry, crimson, purple, lilac, etc. The plants grow 2½ feet high, and bloom from early summer till frost. For bedding they rival the phloxes, petunias, etc. Must be given protection in winter.

Barbatus Torreyi. Spikes of brilliant scarlet flowers. 3 to 4 feet. June to August.

Digitalis. Large spikes of long, purple-white flowers, with purple throats, during June and July. 2 to 3 feet.

20 cts. each, \$2 per doz., \$12 per 100

PHYSOSTEGIA

(False Dragon Head)

One of the most beautiful of our mid-summer flowering perennials, forming dense bushes 3 to 5 feet high, bearing spikes of delicate, tubular flowers not unlike a gigantic heather.

Virginica. Bright but soft pink.

Virginica alba. Pure white; very fine.

20 cts. each, \$2 per doz., \$12 per 100

HARDY GARDEN PINKS

Old favorites, bearing their sweet, clove-scented flowers in the greatest profusion during May and June. They are indispensable for the edge of the hardy border and for cutting. 1 foot.

Elsie. Bright rose, maroon center.

Her Majesty. Large flowers of purest white.

Homer. Rosy red with dark center.

Juliette. White, laced crimson.

White Reserve. An everblooming pure white.

William Hopper. Fringed white flowers, with crimson-purple lacing.

20 cts. each, \$2 per doz., \$12 per 100

HARDY PERENNIAL PLANTS, continued

PLATYCODON

These are sometimes called Campanulas, to which they are closely allied. Form neat plants, bearing a succession of flowers on upright stems.

Grandiflora cærulea. Fine blue flowers. June to October. 18 inches.

Grandiflora alba. White. June to October. 18 inches.

30 cts. each, \$2 per doz.

ORIENTAL POPPIES

Papaver orientale

Everyone is familiar with the gaudy Oriental Poppies, and doubtless many are aware that during the last few years hardy plantmen in England, Holland, etc., have been working hard on their improvement, with the result that today we have quite a host of new varieties and in many lovely colors. We offer the following distinct varieties:

Goliath. Fiery scarlet.

Mahony. Dark crimson-maroon, shaded mahogany.

Mrs. Perry. Salmon-rose.

Oriflamme. Large; gorgeous orange-scarlet.

Princess Victoria Louise. Salmon-pink.

25 cts. each, \$2.50 per doz.

New White Oriental Poppy, Perry's White

A sterling novelty and the most distinct break that has yet been made in the Oriental Poppies, it being a pure satiny white, with a bold crimson blotch at the base of each petal. This is, unquestionably, the most important addition to our list of hardy perennial plants this season. Strong, flowering size, 35 cts. each, \$3.50 per doz.

Pyrethrum

Hybridum fl.-pl.

Too much cannot be said in favor of this grand hardy perennial, which will thrive in any good garden soil where there is good drainage and full exposure to the sun. The main season of blooming is in June, but if the old flower-stems are removed they will give a fair sprinkling of flowers in the autumn. Splendid for cutting. We offer choice named sorts in Crimson, Pink, and White. 35 cts. each, \$3.50 per doz.

Hybridum, Single.

In choicest mixture of colors, which are splendid for cut-flowers. 25 cts. each, \$2.50 per doz., \$15 per 100.



Oriental Poppy

RUDBECKIA (Coneflower)

Golden Glow. A well-known popular plant; a strong, robust grower, attaining a height of 5 to 6 feet, and producing masses of double, golden yellow, cactus-dahlia-like flowers from July to September.

Newmanii. Dark orange-yellow flowers, with deep purple cone, borne on stiff, wiry stems 3 feet high; flowers from July to October.

Purpurea (Giant Purple Coneflower). Flowers about 4 inches across, of a peculiar reddish purple with a remarkably large, cone-shaped center of brown; forms bushy plants 3 feet high, and blooms from July to October.

20 cts. each, \$2 per doz., \$12 per 100

SAXIFRAGA

These will thrive in any kind of soil and in any position; grow about 1 foot high, and are admirable for the front of the border or shrubbery, forming masses of handsome, broad, deep green foliage, which alone renders them useful, while the pretty flowers, which appear very early in the spring, some almost as soon as the frost is out of the ground make them doubly effective.

Cordifolia. Light pink.

Orbicularis. Deep rose.

Speciosa. Deep rosy crimson.

Stracheyi. Pale pink.

Van Houttei. Light pink.

25 cts. each, \$2.50 per doz., \$18 per 100

SCABIOSA

Caucasica. One of the handsomest hardy plants, with flowers of a beautiful soft lilac color; fine for cutting. Begins to bloom in June and lasts until September. 18 inches.

Caucasica alba. The white variety.

20 cts. each, \$2 per doz., \$12 per 100



Rudbeckia purpurea

SEDUM (Stonecrop)

Suitable for the rockery, carpet-bedding, covering graves, etc.

Acre. The foliage of this is a distinct attraction in itself, being of a yellowish green shade; for covering rockeries, in borders or beds on cemetery lots it is indispensable. The flowers, which appear in July, are bright yellow and last a long while. 6 inches.

Spectabile. This variety grows about 18 inches and flowers in June; foliage light green; immense heads of pink flowers.

Spectabile, Brilliant. One of the prettiest tall-growing species, reaching a height of about 18 inches; broad, light green foliage and richly colored flowers of amaranth-red. September and October.

25 cts. each, \$2.50 per doz., \$18 per 100

STATICE

Latifolia (Great Sea Lavender). A most valuable plant either for the border or rockery, with tufts of leathery leaves and immense candelabra-like heads, frequently 2 feet across, of purplish blue, minute flowers from June to September; these if cut and dried, last for months. 20 cts. each, \$2 per doz.

SWEET WILLIAM

Dianthus barbatus

We offer a superb strain which we can supply either in a choice mixture or in the following separate colors: Newport Pink, Scarlet, and White. 20 cts. each, \$2 per doz., \$12 per 100.

Few flowers give more satisfaction to the gardener than Sweet Williams

HARDY PERENNIAL PLANTS, continued

STOKESIA (Cornflower Aster)

Cyanea. A beautiful native plant. Grows from 18 to 24 inches high, bearing freely from early in June until October its handsome lavender-blue cornflower-like blossoms, which measure from 4 to 5 inches across. It is of the easiest culture, succeeding in any open, sunny position, and not only is it desirable as a single plant in the hardy border, but it can also be used with fine effect in masses or beds of any size.

Cyanea alba. Pure white variety of above. 20 cts. each, \$2 per doz., \$12 per 100

TROLLIUS (Globe Flower)

Hardy perennials, flowering freely from May until August. 2 to 2½ feet.

Japonicus, Excelsior. Very deep orange flowers.

Caucasicus, Orange Globe. A new variety with large, deep orange-colored flowers. 25 cts. each, \$2.50 per doz.

TRITOMA

Red-Hot Poker, Flame Flower, or Torch Lily

The early, free, and continuous-blooming qualities of the newer varieties have made Tritomas one of the great bedding plants, and when we consider that there are few flowering plants which are suitable for massing under our severe climatic conditions, it is little wonder that such elegant subjects should become so popular. All the varieties offered are worthy of cultivation, succeeding



Stokesia cyanea

TRITOMA, continued

in any ordinary garden soil, but responding quickly to liberal treatment; they are hardy if given protection, but the most satisfactory method of wintering is to bury the roots in sand in a cool cellar.

Pfitzeri (Everblooming Flame Flower).

In bloom from August to October, with spikes 3 to 4 feet high, and heads of bloom of a rich orange-scarlet, producing a grand effect either planted singly in the border or in masses. 25 cts. each, \$2.50 per doz., \$15 per 100.

Tricolor. A charming, small-flowered sort, in which three distinct colors are combined in the same spike of flowers, the buds at first appearing cochineal-red changing to canary-yellow, finally opening a sulphur-white; very free-flowering. August to October. 2½ feet. 25 cts. each, \$2.50 per doz.

Uvaria grandiflora. The old-fashioned late-flowering sort; spikes 3 to 5 feet high, flowers rich ochre-red, passing to salmon-pink. 15 cts. each, \$1.50 per doz., \$10 per 100.

One each of the three Tritomas for 50 cts.

VALERIANA

(Spurred Flower)

Coccinea (Spurred Flower). Showy heads of red flowers; in bloom all summer. 2 feet.

Coccinea alba. A white form of the above.

Officinalis (Hardy Garden Heliotrope). Showy pink flowers from June to August, with a strong heliotrope perfume.

20 cts. each, \$2 per doz., \$12 per 100

VERONICA (Speedwell)

A fairly numerous and much-grown group of perennials which, with few exceptions, bear spikes of blue flowers. The taller forms are very pretty border plants, and the dwarfier varieties are well suited for the rockery. Excellent for cutting.

Longifolia subsessilis. This is undoubtedly the most handsome variety in commerce, in fact, the most beautiful blue perennial we know of. Grows 2½ feet high and is completely studded with spikes of rich blue flowers from July to August. 20 cts. each, \$2 per doz., \$12 per 100.

WALLFLOWER

The old favorite fragrant Wallflowers. Few flowers give a greater wealth of bloom in the early spring than the Wallflower. We offer plants in a mixture only, which includes the beautiful shades of yellow and bronze. 20c. each, \$2 per doz., \$12 per 100.

YUCCA

Adam's Needle

Filamentosa. Among hardy ornamental foliage and flowering plants this can be classed at the head of the list. Its broad, sword-like foliage and tall, branched spikes of large, fragrant, drooping, creamy white flowers during June and July make it an effective plant for all positions. 25 cts. each, \$2.50 per doz., \$15 per 100.



Yucca filamentosa



Tritoma Pfitzeri

HARDY SHRUBS

Our shrubs are all large, carefully selected plants, and can be sent by express only, purchaser paying express charges. Special prices given on quantities. The shrubs in the following list can be supplied by us on short notice. We shall be pleased to communicate with our patrons requiring a more extensive list of sorts.

Prices of all shrubs on this page, unless otherwise noted, 50 cts. each, \$5.50 per doz.

Azalea

Amœna. A dwarf shrub, flowering during April and May, with masses of purplish red double flowers which last from three to four weeks. The foliage remains all winter, when it turns to a coppery red shade. \$1 each, \$11 per doz.

Mollis. Similar to the above, with light green leaves; the flowers are single and as large as those usually seen on plants in florists' windows at Easter-time. Blooms about the middle of May; splendid for border planting around dwellings or massing in beds: **Rich Red** or **Deep Yellow**. Selected plants, 25 buds, \$1 each, \$11 per doz.

Choice Selected from 10 Named Sorts. 18 to 24 inches high, 75 cts. each, \$8.50 per doz.

Calycanthus floridus (Strawberry Shrub)

An interesting shrub, having a rare and pleasing fragrance of wood and flowers; its blooms are abundant and of a peculiar chocolate-color. 2 to 3 feet.

Cerasus (Flowering Cherry)

James Veitch. The finest double-flowering Cherry; flowers fine pink; very fragrant during May. \$1 each, \$11 per doz.

Cornus (Dogwood)

Sibirica. In the winter this is the most showy of all the shrubs, standing out bright and cheerful with its brilliant red bark. It should be planted in groups where its color effect is visible at a distance. It has healthy, compact foliage, white flowers and white berries. 2 to 3 feet.

Cratægus (Hawthorn)

William Paul. Rich, brilliant scarlet flowers; very free-flowering sort; quite the finest Hawthorn. 75 cts. each, \$8.50 per doz.

Cytisus (Golden Chain)

Laburnum vulgare. A native of Europe, with smooth and shining foliage. The name Golden Chain alludes to the length of the drooping racemes of yellow flowers which appear in June.



Deutzia gracilis

Deutzia

Gracilis. Of dwarf, bushy habit; the racemes of white flowers completely cover the plants, making it one of the most attractive shrubs of the season, blossoming in June.

Lemoinei. The branches are entirely covered with erect panicles of large, snow-white flowers, quite distinct from all other Deutzias; one of the best dwarf varieties.

Forsythia

Viridissima. Bright yellow flowers, which appear early in the spring.

Suspensa. Yellow; drooping habit.



Hydrangea paniculata grandiflora

Honeysuckle, Upright (Lonicera)

The following varieties are of erect, shrubby habit; valuable for their showy fruit. The climbing sorts will be found under head of Hardy Vines and Creepers, page 109.

Tatarica rosea. Pink flowers, which contrast beautifully with the foliage; scarlet berries.

Tatarica alba. Forms a high bush, with creamy white, fragrant flowers.

Hydrangea

Paniculata grandiflora. One of the most popular shrubs in cultivation, blooming at a time when few other shrubs are in flower. The immense panicles of pure white flowers, which appear in August, turn to a delicate pink, remaining until late in the autumn. Spikes of flowers have been known to measure 12 inches long by 22 inches in circumference. Extra-strong plants, 5 to 6 branches.

Standard. About 5 feet high, well branched (stems 2½ feet), 75 cts. each, \$8.50 per doz.

Otaksa. Of vigorous growth, especially in rich, moist soil; heavy, dark green foliage; large heads of beautiful, rose-pink flowers, blooming freely when quite young.

Hibiscus (Rose of Sharon)

This has become one of the most popular flowering shrubs, coming in flower, as it does, in July or August, when few shrubs are in bloom. The entire plant is covered with beautiful double flowers, which, at a distance, look like roses. They make a very pretty flowering hedge. Three-year-old plants, single flowers, in **White**, **Pink** or **Purple**.

Kerria

Japonica. A slender, green-branched shrub, covered with a profusion of globular yellow flowers from July to October.

Lilacs

Charles X. A strong, rapid-growing variety, with large, shining leaves; trusses large, reddish purple.

Marie Legraye. Large panicles of white flowers, valuable for forcing as well as outdoors. The finest white Lilac.

Souv. de L. Spæth. Panicles long; individual flowers large, single; dark purplish red; the finest of its color.

Mad. Lemoine. Large panicles of pure white, double flowers. A splendid sort.

All Lilacs offered in 2½-foot plants, with four branches and up, 75 cts. each, \$8.50 per doz.

Mahonia (Holly-leaved Mahonia)

Aquifolium. A native shrub of medium size, with large, shining, prickly leaves, similar to those of the famous English holly, which turn scarlet in the fall; bright yellow flowers in May, succeeded by bluish berries.

Malus (Fragrant-Flowered Crab)

Parkmanni. From Japan. Each bud produces regularly five blossoms set on stems 3 inches long, which are so slender that they bend with the weight of the buds and bloom in a very graceful fashion. The buds are carmine in color. The open blossoms are semi-double; the tree when in bloom presents a most gorgeous appearance.

Prunus

Triloba (Double-flowering Plum). Native of China. A highly interesting and desirable addition to hardy shrubs; the double flowers are of a delicate pink, upward of an inch in diameter, thickly set on the long, slender branches; flowers in May.

Sambucus (Elder)

Golden Elder. One of the most showy shrubs grown, on account of its golden foliage. Very desirable for ornamenting lawns.
Laciniata. A valuable variety, with elegantly divided leaves; one of the best cut-leaved shrubs.

Spiraea

Anthony Waterer. A fine new dwarf Spirea with dark crimson flowers. One of the finest shrubs of recent years. 35 cts. each \$3.50 per doz.
Van Houttei. Without doubt the finest of Spireas. At the flowering season in May and early June, the plant is covered with a mass of large white flowers, presenting a beautiful appearance.

Staphylea (Bladder Nut)

Colchica. One of the finest early-flowering shrubs; handsome, pale green leaflets; flowers white, fragrant and disposed in clusters.

Symphoricarpos

Racemosus (Snowberry). A well-known shrub, with small pink flowers and large white berries that hang on the plant through part of the winter.

Syringa (Mock Orange)

Coronarius (Garland Mock Orange). This is the popular well-known variety; very sweet, and one of the first to flower.
Grandiflorus (Large-flowered Syringa). Has very showy, large flowers, slightly fragrant; branches somewhat straggling.
Foliis aureis (Golden-leaved Syringa). A very pretty plant of medium size, with golden yellow foliage. It keeps its color the entire season, and will be found valuable for creating pleasing and striking contrasts with purple-leaved shrubs.

Viburnum (Snowball)

Opulus (High Bush Cranberry). One of the best for general planting. The leaves are broad and elegant, and the fall-borne, bright scarlet berries catch the eye late into the winter. June.
Plicatum (Japan Snowball). Of moderate growth; handsome plicated leaves; globular heads of pure white, neutral flowers early in June. It surpasses the common variety in several respects. Its habit is better, foliage much handsomer, flowers whiter and more delicate. One of the most valuable flowering shrubs.

Weigela

Rosea (Rose-colored Weigela). An elegant shrub, with fine rose-colored flowers, introduced from China by Mr. Fortune, and considered one of the finest plants he has discovered; of erect, compact growth; blossoms in June.
Eva Rathke. A charming new Weigela, with brilliant crimson flowers; a beautiful, distinct, clear shade.

Price of all Shrubs on this page, unless otherwise noted, 50 cts. each, \$3.50 per doz.

MAGNOLIAS

The following three sorts are of Japanese and Chinese origin. All are of dwarf habit and assume more readily the bush form.

Alexandrina. A choice variety, producing light pink flowers in profusion the first week of May. Selected plants, 4 ft., \$1.50 each, \$16.50 per doz.

Lennei. Its deep, dark purple flowers are cup-shaped and large; open in June and borne profusely. Selected plants, 4 ft., \$1.50 each, \$16.50 per doz.

Soulangeana. Perhaps the most popular of all Magnolias, being of vigorous growth and blooming profusely, even when quite small. The flowers are large, pink on the outside of petals and white inside. Makes a brilliant show in early spring. Selected plants, 4 ft., \$1.50 each, \$16.50 per doz.

HARDY RHODODENDRONS

Few plants have enjoyed more increasing popularity than these; none are more gorgeous or effective; the immense flower-heads, which appear in May, almost cover the plant, which increases in size and beauty each year. When out of flower the evergreen plant itself is very attractive.

Charles Dickens. Red, a shade between light and dark.

Everestianum. Very delicate lavender.

Grandiflorum. Dark rose; very attractive.

Kettledrum. Very lively crimson.

Lady Grey Egerton. Beautiful light mauve.

Memoir. White, with faint blush.

All hardiest English hybrids, 21 to 24 inches, \$2 each \$22 per doz.

JAPANESE MAPLE

(*Acer polymorphum atropurpureum*)

The hardiest of the colored-leaved forms, and is more largely planted, the blood-red foliage making it a strikingly handsome and conspicuous tree. Trees are dwarf in habit, seldom attaining a height of more than 3 feet. Fine plants, pyramid-shape, pot-grown, 2½ to 3 ft., \$1.35 each, \$12 per doz.



Viburnum plicatum

SELECTED FRUIT TREES

We recommend northern-grown fruit trees to our customers, as they will be found to give better satisfaction than southern-grown or western-grown trees. We furnish excellent clean trees, which, if planted carefully, are almost sure to succeed. Trees, when received, should be planted at once in rich, prepared soil, the roots being carefully separated and spread. If dry weather follows planting, the trees must be watered and mulched. Branches of last season's growth should be well cut back, thus encouraging the vigorous growth of new healthy shoots.

Apples

The following is a list of the best Apples we have decided to include after trial. The months indicated are those in which the different varieties usually mature.

SUMMER VARIETIES

- Early Harvest.** Medium size; pale yellow; mild, fine flavor. August.
- Golden Sweet.** Large, yellow, sweet variety. August, September.
- Red Astrachan.** One of the best of the summer varieties. Apples are of medium size but uniform; flesh white, streaked with red; juicy and tender. August.
- Sweet Bough.** A splendid Apple for baking; large; pale yellow; tender and sweet. August.
- Yellow Transparent.** A splendid early variety; fruit good size; mild and delicious; yellowish white when ripe.

AUTUMN VARIETIES

- Fall Pippin.** Very large; yellow; tender, juicy and rich. A favorite fall cooking Apple. October to November.
- Fameuse, or Snow Apple.** One of the best table Apples; medium size; deep crimson; flesh snowy white. September, October.
- Gravenstein.** Vigorous growth; fruit large; greenish yellow, striped with red; good for home use or market. September, October.
- Maiden Blush.** Fruit good size; rich yellow, bright red cheek on the sunny side; first-class for cooking and eating. September, October.

WINTER VARIETIES

- Baldwin.** A fine keeper in a common dry cellar. Very large, round; red-and-yellow skin. Very profitable market sort. December to March.
- Ben Davis.** A splendid cooking variety. Yellow skin with red stripes. December to March.
- Delicious.** Distinctive in shape and beautiful in color. Large; brilliant dark red, blending to golden yellow at the blossom end; sweet in flavor, slightly touched with acid, but only enough to make it more pleasing. Bears annually. December to April.
- Golden Russet.** Medium in size and of golden russet color. November to April.
- Hubbardston.** Large and uniform; color greenish yellow, bright red splashes; tender and juicy. October to January.
- Newtown Pippin.** Good size; bright yellow; pink flesh; rich flavor; good keeper. November to June.
- Northern Spy.** Large; bright yellow; juicy, crisp and tender. Splendid for table or cooking. Ready to eat in November and will keep in good condition until June.
- Rhode Island Greening.** A splendid cooking variety. Fruit large; green, sometimes with red cheek. October to February.
- Roxbury Russet.** Medium size; dull green, nearly covered with russet; skin tough; flesh mild and appetizing. January to June.
- Spitzenburg.** Large, round; brilliant red with gray dots; delicious flavor. December to April.
- Any of the above, Standard 3-year-old XX, \$1 each, \$10 per doz. Standard 4-year-old XXX, \$1.50 each, \$15 per doz.

Crab Apples

- Hyslop.** Large size; red in color; hardy; sharp acid flavor. September, October.
- Red Large Siberian.** About an inch in diameter; grows in clusters; yellow, lively scarlet cheek. September, October.
- Large Yellow Siberian.** Nearly as large as the above; fine golden yellow. September, October.
- Any of the above, 2-year-old XX, \$1 each, \$10 per doz.; 3-year-old XXX, \$1.50 each, \$15 per doz.

Pears

SUMMER VARIETIES

- Bartlett.** Splendid flavor; large; yellow and red; good for eating or canning. September.
- Clapp's Favorite.** Good bearing variety. Fruit large; yellow and crimson. August.
- Wilder.** Regular in form, fair size and very handsome; greenish yellow with reddish cheek; flavor sweet and pleasant. August.

AUTUMN VARIETIES

- Anjou.** Fruit large; yellow; very little core; Splendid flavor; keeps well into midwinter. November.
- Belle Lucrative.** Fine, large Pear; yellowish green, slightly russeted. Excellent autumn variety. September, October.
- Kieffer.** A wonderfully productive sort; fruit golden yellow; juicy but coarse; excellent for canning. October to January.
- Louise Bonne of Jersey.** A splendid, large, yellowish green sort with red cheek; fine-grained and splendid, aromatic flavor. September, October.
- Seckel.** A splendid Pear for the home garden. Of very rich flavor; small; color brownish green with reddish cheek. September, October.

WINTER VARIETIES

- Lawrence.** Probably the best dessert Pear for use in early winter. Fruit is of fair size, yellow, juicy and sweet; excellent for cooking or eating. December.
- Lincoln Coreless.** Remarkable late winter Pear; keeps well until the middle of March. Few seeds and almost no core; clear golden yellow. December.
- Winter Nelis.** An old variety of excellent quality; fruit small; dull green; fine-grained and richly flavored. December.
- Any of the above, 2-year-old XX, \$1 each, \$10 per doz.; 3-year-old XXX, \$1.50 each, \$15 per doz.

Cherries

BIGARREAU OR SWEET

- Black Tartarian.** Vigorous growth; very large; purplish black; one of the best. Ripening end of June.
- Coe's Transparent.** Vigorous growth; medium; pale amber and red; one of the best. Ripening end of June.
- Governor Wood.** Vigorous growth; medium; clear, light red; tender and delicious. Ripening end of June.
- Napoleon.** Vigorous growth; very large; pale yellow with red cheek; firm, juicy and sweet; very good. Ripening first of July.
- Rockport.** Vigorous growth; large pale amber and red; sweet and tender; good. Ripening first of July.

MORELLO OR SOUR CHERRIES

- Early Richmond.** Medium size; dark red; juicy, rich acid flavor. The stone adheres to the stem. One of the most valuable of sour Cherries.
- Montmorency (Large Montmorency).** A Cherry of the Richmond class, but larger and more solid. A more upright grower, equally hardy; a heavy cropper. Ripens from seven to ten days later than the Richmond, entirely escaping danger from spring frost.
- Morello, English.** Large; dark red, nearly black; tender, juicy, subacid; valuable for preserves; tree small, slender growth; productive.
- Two-year-old XX, 75 cts. each, \$7.50 per doz.; 3-year-old XXX, \$1.25 each, \$12.50 per doz.

Plums

- Bradshaw.** Very large, oval; the bark violet-red; juicy, sweet and good; a valuable market variety.
- Coe's Golden Drop.** Very large; light yellow; rather firm; rich, sweet and good; adheres to the stone.
- Lombard.** Medium oval; violet-red, juicy, pleasant and good; very productive.

JAPAN PLUMS

- Abundance.** Lemon-yellow ground, overspread with bright cherry, and with a heavy bloom; large.
- October Purple.** Large, round fruit; dark, reddish purple-yellow; flesh of most superb quality.
- Two-year-old XX, 75 cts. each, \$7.50 per doz.; 3-year-old XXX, \$1.25 each, \$12.50 per doz.

Peaches

- Champion.** Handsome creamy white with red cheek. It is of large size and of very superior flavor.
- Crawford's Early.** Very large; yellow; juicy, melting; freestone. Ripening end of September.
- Crawford's Late.** Very large; yellow; juicy, good; freestone. Ripening end of September.
- Crosby.** Considered the best variety introduced for years. Grown extensively throughout New England.
- Elberta.** Large, light-colored yellow Peach; juicy, well flavored; finest yellow freestone.
- Mountain Rose.** Large; white and red; juicy; good. Ripening end of August.
- Oldmixon Free.** Large; greenish white and red; juicy and rich. Ripening middle of September.
- One-year-old XX, 50 cts. each, \$5 per doz.; 2-year-old XXX, 75 cts. each, \$7.50 per doz.

Quinces

- Apple, or Orange.** Large, roundish; bright golden yellow; very productive.
- Bourgeat.** One of the finest yet offered. Color, rich golden, and quality extra good. Extra large.
- Champion.** A vigorous and productive variety. Ripening very late.
- Rea, or Rea's Mammoth.** A very large and fine variety of Orange Quince. One of the best.
- Two-year-old XX, \$1 each, \$10 per doz.; 3-year-old XXX, \$1.50 each, \$15 per doz.

GRAPE-VINES

We receive many flattering testimonials as to the quality of our Grape-vines.

Extra-strong, 3-year-old vines, 50 cts. each, \$5 per doz.

White Grapes

Diamond. White. Bunch large, compact, shouldered; berries large, round; skin thin, but tough; flesh tender, juicy, with but little pulp. Vine is a good grower, with thick, healthy foliage; hardy and productive; of fine quality. Ripens a little before Concord.

Green Mountain. White. Bunch medium to large, shouldered; berries medium, greenish white; skin thin, tough; pulp tender, sweet, with few seeds; of excellent quality, free from foxiness; very early. Vine vigorous, healthy, hardy and very productive. A fine Grape, identical in every way with Winchell.

Niagara. White. Bunch very large and handsome, often shouldered; compact; berries large, round; skin thin, tough, does not crack, and carries well; has not much pulp when fully ripe; melting, sweet, with a flavor and aroma peculiarly its own, and agreeable to most tastes; ripens with Concord.

Pocklington. Pale green, usually with tinge of golden yellow where exposed to the sun; bunch large, very compact; berries very large, covered with a beautiful white bloom; flesh juicy, sweet, with considerable pulp.

Red Grapes

Agawam. Red or maroon. Bunch usually loose, shouldered; berries large; skin thick; flesh pulpy, meaty, juicy, of a rich, peculiar aromatic flavor; ripens about with Concord; a good keeper. Vine a strong, rank grower, hardy and productive; should be pruned, leaving long canes.

Brighton. Red. Bunch medium to large, long, compact; shouldered; berries medium; skin thin; flesh tender, sweet, with scarcely any pulp; quality best. Vine a vigorous grower, healthy, hardy and productive; one of the best early red Grapes. The flowers have reflexed stamens and do not always fertilize fully unless planted with Concord, Worden, Martha, or other varieties which blossom at the same time. Ripens with Delaware.

Catawba. Dark red when fully ripe. Bunch large, moderately compact, shouldered; berries medium to large; skin thick, tough; flesh somewhat pulpy, with rich, vinous flavor, of best quality for both table and wine. Vine a good grower, hardy, with healthy foliage; very productive and profitable where it succeeds and matures well. Ripens too late for high latitudes.

Delaware. Red. Bunch small, compact, sometimes shouldered; berries small; skin thin, but firm; flesh juicy, very sweet and refreshing, of best quality for both table and wine; ripens with Concord or a little before. Vine hardy, productive, a moderate grower; requires rich soil and good culture. Is regarded by many as the best American Grape, all things considered. It should be in every garden and vineyard.

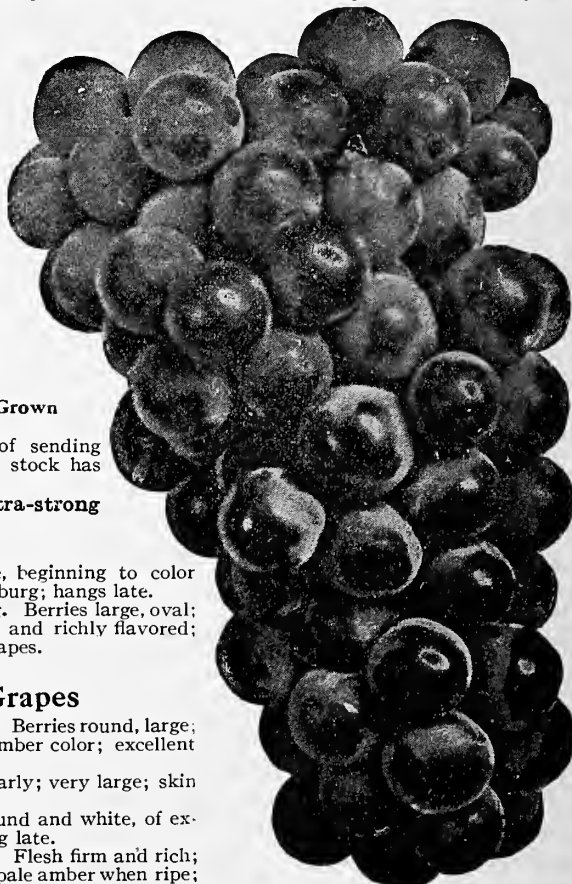
Black and Blue Grapes

Concord. Black. Early. Decidedly the most popular Grape in America, and deservedly so. Bunch large, shouldered, compact; berries large, covered with a rich bloom; skin tender, but sufficiently firm to carry well to distant markets; flesh juicy, sweet, pulpy, tender. Vine a strong grower, very hardy, healthy and productive. For general cultivation the most reliable and profitable variety.

Eaton. Black. Similar in foliage to Concord. In growth, health, and hardness of vine; in every respect its equal, while in size of bunch and berry it is much larger and more attractive. Leaf large, thick, leathery, covered on the under side with a thick brownish yellow down. Bunch very large, compact, double shouldered; berries very large, many 1 inch in diameter, round, black, covered with a heavy blue bloom, adheres firmly to the stem; skin thin, but tough; pulp tender, separating freely from the seeds and dissolving easily in the mouth; very juicy. Ripens with Concord or a little earlier.

Moore's Early. Black. Bunch rarely shouldered; not quite so large as Concord; berries larger and very much like it in flavor and quality. Vine a moderate grower; very healthy and hardy; foliage thick, leathery, somewhat resembling Concord, except on the under side, which is covered with a yellowish brown down. Produces a fair, and, with high cultivation, a heavy crop. Ripens so early as to be nearly out of market before Concord is ripe and is, therefore, a very popular early market variety. Succeeds best on rich soil.

Worden. Black. Bunch large, sometimes shouldered, compact; berries very large, skin thin. Superior to the Concord in the following points: It is better in quality, has a larger berry, a more compact and handsome cluster, and ripens five to ten days earlier.



Concord Grapes

HOTHOUSE GRAPES

Pot-Grown

Our growers, Messrs. Thomas Rivers & Sons, have the reputation of sending out only the best stock. In every instance where we have imported, the stock has given excellent satisfaction.

Strong, 2-year-old planting canes, \$5 each, \$50 per doz.; extra-strong fruiting canes. \$7.50 each, \$75 per doz.

Black Grapes

Alicante (Black Tokay). Berries very large, oval; bunch large; a good late-keeping Grape.

Appley Towers. A late black Grape, succeeding Black Hamburg; of good flavor and keeping qualities.

Barbarossa. Berries round, very large, black; flesh juicy and sweet; a very late sort.

Black Hamburg. Berries large, roundish oval; the most popular and one of the best Grapes in cultivation.

Black Muscat. (Muscat Hamburg). Berries medium size, oval; richly flavored Grape.

Gros Colman. Berries round, black, of monstrous size; flesh juicy and sweet; bunch very large; hangs late.

Gros Maroc. This Grape is now recognized as one of our finest. The berries are large,

of a deep black-purple, beginning to color as early as Black Hamburg; hangs late.

Lady Downe's Seedling. Berries large, oval; black; flesh firm, sweet and richly flavored; one of the best late Grapes.

White Grapes

Buckland Sweetwater. Berries round, large; when ripe of a pale amber color; excellent bearer.

Duke of Buccleuch. Early; very large; skin tender.

Lady Hutt. Berries round and white, of excellent quality, hanging late.

Muscat of Alexandria. Flesh firm and rich; berries large and oval, pale amber when ripe; requires heat to ripen.

CHOICE SELECTION OF SMALL FRUITS

We have endeavored to list only the choicest sorts and, while our list is a short one, only the finest sorts are offered. This is preferable to a long list which would necessarily contain varieties of less merit.

SHIPPING SEASON APRIL AND MAY

CURRENTS

Plant in rows 6 feet apart, and 4 feet apart in the rows, or, if to be cultivated both ways, 5 feet apart each way. The soil should be well cultivated to a depth of 12 inches. Plants should be well set and roots firmed in the soil. After planting cut back the tops one-half of the previous year's growth. For the first 4 or 5 years some of the wood made in the spring should be cut back in the fall, in order to make a more symmetrical plant and a greater number of fruit-buds. Rotted stable manure around base of plant forked in each fall will prove very beneficial.

15 cts. each, \$1.50 per doz., \$10 per 100

Wilder (President Wilder). Bush upright, vigorous; clusters above medium length; berries averaging large; bright red; excellent, with a mild subacid flavor. Ripens early and remains bright and firm until very late. Because of its exceedingly vigorous growth, great productiveness, high quality, and remaining good so long after ripening, we recommend this as one of the best Red Currants, both for table and market.

Boskoop Giant. Bush strong grower; productive. Fruit rich, sweet flavor, ripens evenly and hangs well on bushes for a long time after ripening in good condition; firm, pulpy flesh, making it well adapted to canning and shipping. The largest and best of all black varieties.

White Imperial. Bush vigorous and very productive; clusters large; berries very large, sweet and most delicious. This is the best of the White Currants, and fine for the table. Equally desirable as a market Currant.

GOOSEBERRIES

Plant in the same manner as described for currants, and give the same annual manuring. The American varieties will need close pruning every year, the English varieties need little or no pruning.

AMERICAN VARIETIES

20 cts. each, \$2 per doz., \$15 per 100

Downing. Pale green, large, prolific and good. Best for home and market use.

Red Jacket. Bush vigorous, upright and productive. Fruit varies in size from medium to above medium. Color pale red.

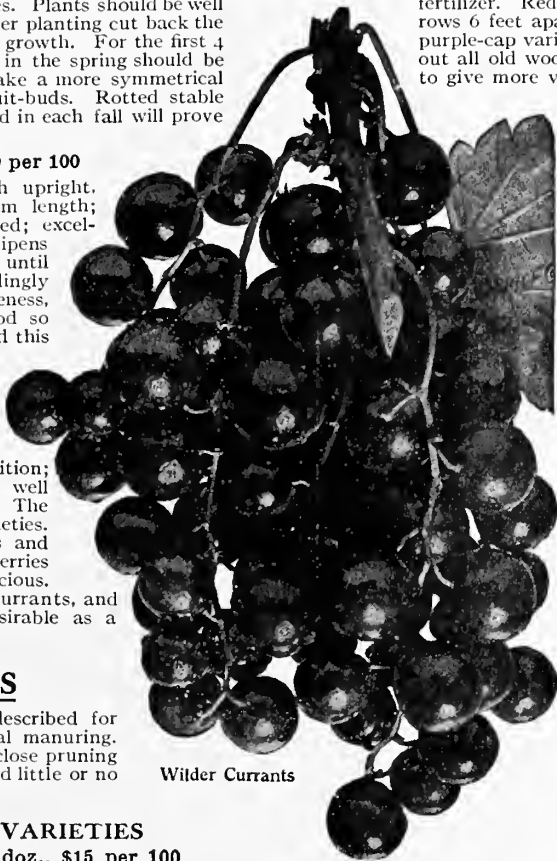
Golden Prolific. Good grower; hardy; productive. Fruit large; golden yellow; excellent.

ENGLISH VARIETIES

40 cts. each, \$4 per doz., \$30 per 100

Industry. The most successful of English varieties succeeds admirably in this country. The bush is strong, upright, immensely productive. Berries are of the largest size, dark red, of excellent quality.

Keepsake. Fruit very large, straw-colored, of excellent flavor. Very productive, and one of the earliest to ripen.



Wilder Currants

RASPBERRIES

Raspberries succeed well on any good land suitable for corn or wheat, but amply repay high cultivation. Ground bone is the best fertilizer. Red and yellow varieties should be planted in rows 6 feet apart and 3 feet apart in the rows; black- and purple-cap varieties 7 feet apart and 3 feet in the rows. Cut out all old wood as soon as the canes have done bearing—to give more vigor to the young canes. Blackcap varieties should be planted only in the spring.

Extra-strong canes, 15 cts. each, \$1.25 per doz., \$8 per 100

RED

Cuthbert. Deep, rich crimson; large to very large; very firm. One of the very best market varieties. Season medium to late. A remarkably strong, hardy and productive variety.

Marlboro. Light crimson, large, very firm, and of good quality. A fine early market variety; vigorous and productive.

BLACK AND PURPLE

Columbian. Dull purple, very large, moderately firm. A good market berry and one of the best for canning. Bush remarkably strong and wonderfully productive.

Cumberland. Black. Very large; very similar to Gregg in quality and firmness; in hardness and productiveness it is unexcelled. One of the best midseason market varieties, and very popular.

Kansas. Black. Berries as large as Gregg and of better color; little bloom; of best quality; ripens early. The plant is a strong grower and productive.

YELLOW

Golden Queen. Large, golden yellow, of fine quality. Very hardy and productive; succeeds almost anywhere, and is a most desirable berry, bringing good prices in the market.

BLACKBERRIES

Blackberries require the same treatment as raspberries and should be planted the same distance apart. We have avoided listed varieties of the prostrate habit, the tips of which constantly root in the ground.

Extra-strong canes, 15 cts. each, \$1.25 per doz., \$8 per 100

Agawam. Medium size, jet-black, sweet and tender to the core. One of the best for home use or home market. Very hardy, healthy and productive, and one of the most satisfactory varieties to grow.

Ancient Briton. Of medium size and best quality; immensely productive. Extremely hardy, enduring severe winters without injury. A reliable market variety. Excellent keeper.

Eldorado. Large, coal-black, sweet, melting, without hard core. Vigorous, hardy and very productive. Fine market variety.

Kittatinny. Large, long, glossy black of most excellent quality and fine flavor. A popular variety, but requires protection in severe climates.

New Raspberry ST. REGIS EVERBEARING (Raniere)

A remarkable Raspberry and, all things considered, the most valuable variety that has appeared in the last quarter of a century. The berries, though not of large size, are bright red and of excellent quality. It ripens very early, in advance of all the other red varieties, and the canes, in addition to being exceedingly hardy and drought-resistant, are exceedingly prolific. It has rich green foliage that does not scald or rust, hence it succeeds on hot, sandy soil where other varieties fail. Besides yielding an enormous crop in June, it gives also a moderate one in the autumn, and, unlike other red Raspberries, it produces a crop of berries the first year, or the season it is planted. 15 cts. each, \$1.50 per doz., \$10 per 100.

CARNATIONS *and* CHRYSANTHEMUMS

FOR INDOOR GROWING

We cannot fill any order for less than three of any variety of Carnations, Chrysanthemums, and Roses, except where the order amounts to \$1 or more. Carnations ready in February, Chrysanthemums in March.

Carnations (NEW AND RARE)

Any of the following, except where noted, from 2¼-inch pots; \$1.50 per doz., \$12 per 100. Three of a variety at the dozen rate; 25 at the 100 rate.

Arawana. (A. N. Pierson, Inc., 1917.) A clear, bright crimson; very productive and does not burst the calyx. It is not an exhibition variety, but produces blooms of a good quality that keep well. **Plants from 2¼-inch pots, \$3 per doz., \$20 per 100.**

Cottage Maid. (Cottage Gardens Co., Inc.) A clear shell-pink, deep in the center and lighter toward the base; growth is identical with its widely grown parent, Mrs. C. W. Ward. **Plants from 2¼-inch pots, \$3 per doz., \$20 per 100.**

Alice Coombs. A giant pink, similar to Gloriosa in tone, with a wonderful texture.

Aviator. A very intense scarlet; flowers are well formed with a full center. One of the best producing Carnations.

Nancy. Color light salmon-pink, little darker than Pink Delight and more even color; does not fade; fragrance is very noticeable.

Red Wing. A clear scarlet color, with a long, perfect stem; clean, healthy grower; flowers nicely formed; do not split the calyx.

SELECT STANDARD CARNATIONS

Plants from 2¼-inch pots, \$1 per doz., \$7.50 per 100. 25 of a variety at the 100 rate

ALICE. This flesh-pink variety has perhaps been more widely disseminated than any variety introduced in many years. From California to the eastern coast, Alice shows remarkable freedom of growth and good production. It has shown, also, that it has come into its own with the advent of cold weather, the flowers being of better quality and fully the equal of any light or flesh-pink Carnation in commerce.

BEACON. This variety needs no description to the Carnation-grower. We have always found it one to be depended upon for results. It is one of the best for Christmas scarlet that has ever been introduced.

BENORA. The best variegated Carnation. In color it is creamy white, penciled with bright red. It is a free grower and a good producer, in addition to being an excellent keeper.

ENCHANTRESS SUPREME. Light salmon-pink in color; has the characteristics of the Enchantress family in habit of growth and productiveness. It is better than Enchantress, from which it is a sport, in color, calyx, and form of flower. It is so much of an improvement that we have discarded Enchantress and offer our trade Enchantress Supreme as the best of the flesh-pink varieties.

EUREKA. This is a seedling of Beacon which we have grown here successfully and profitably for several seasons. It is considerably brighter in color than Beacon. In growth, the plant is almost identical with its parent. The flower, although a trifle smaller, has the additional merit of not bursting the calyx and shows good keeping qualities. As a commercial variety, it has proved profitable, particularly to those who cannot grow Beacon and the other scarlet varieties successfully.

MATCHLESS. This variety is regarded by many as the best white Carnation, in spite of the fact that it needs early planting and carries a slight tinge of color in its petals at certain seasons. This tinge of color seems to enhance rather than detract from its beauty. It is a good, average producer and the flowers are of the best quality. It is a wonderful keeper and has made good every promise made for it. We unhesitatingly recommend Matchless to the Carnation-grower.

MRS. C. W. WARD. In the dark pink section, Mrs. C. W. Ward is the only variety generally grown, and the plant characteristics, combined with keeping quality and high-class bloom, recommend it to all Carnation-growers.

WHITE ENCHANTRESS. This old favorite has stood the test of time and is today one of the three finest white Carnations. It is a clean grower, produces good flowers, and produces them constantly throughout the season.

WHITE WONDER. Large, pure white blooms on long, wiry stems are characteristic of this variety. It is a producer and one of the finest white Carnations. It is a fitting companion to Matchless and White Enchantress, and we put faith in the combination in one planting, using them in equal quantities, and have the highest quality in white Carnations at all seasons.

Exhibition Chrysanthemums

NEW AND RARE

Three of a variety at the dozen rate; 25 at the 100 rate

ARTISTA. (Smith.) Outer petals grooved or channeled reflex, while the center ones incur irregularly, giving a very artistic appearance to the bloom; dwarf habit; white, with a slightly creamy tint in the depths.

MORRIS KINNEY. (Totty.) Beautiful and refined incurving white, on the lines of William Turner, but earlier.

MRS. J. GIBSON. (Totty.) Enormous in stem, foliage and flower; color light pink shading to deeper pink lines on ends of petals.

OCTOBER QUEEN. (Smith.) This belongs to the Japanese section, with an inclination to incur at the center. One of the purest whites we know.

OGONTZ. (Smith.) The petals are decidedly grooved or channeled; color light primrose.

WM. RIGBY. (Totty.) Yellow sport of Mrs. Gilbert Drabble. Beautiful, bright canary-yellow.

YELLOW WM. TURNER. (Smith.) The parent of this variety is the most popular white variety. Except in color, it is identical.

Any of the above plants from 2¼-inch pots, 50 cts. each, \$5 per doz., \$35 per 100

ADELE GRISWOLD. A strong-growing variety; bright pink.

ALGONAC. A high and well-rounded, incurved flower; white in color, showing a creamy tint at the center.

BOB PULLING. Large, deep flower, orange-yellow in color; it carries foliage well up to the flower. Take bud August 10.

CALUMET. One of the best of the early exhibition varieties. It is bronze in color and incurved in type.

EARL KITCHENER. A very large flower, amaranth in color, with silvery reverse to the petal. A strong grower.

ELVIA SCOVILLE. (A. N. Pierson, Inc.) A pure white sport of Wells' Late Pink.

MANKATO. Purplish rose or amaranth in color. For collections and general exhibition growing, it will be valuable as the stem amply supports the flower, permitting staging on long stems.

MRS. GILBERT DRABBLE. The showiest of the white varieties when well done.

MRS. J. PURROY MITCHELL. Large, pure white flowers, reflexed in form.

MRS. R. C. PULLING. Clear, bright yellow in color, and the flower is of large size. One of the best exhibition varieties that has been brought forward by the recent exhibitions.

SILVER KING. An exhibition white of good size and form. It is too early for the late shows, but is one of the most promising for the earlier exhibitions. It is a tall grower. Take bud August 25.

Any of the above, plants from 2¼-inch pots, 20 cts. each, \$2 per doz., \$15 per 100

GENERAL LIST OF EXHIBITION

CHRYSANTHEMUMS

C. H. Totty. Chestnut-scarlet in color.

Elberon. A large Japanese incurved. A very pleasing shade of pink.

Gertrude Peers. Crimson when fully reflexed. Best in its color.

Harry E. Converse. The best exhibition bronze.

James Fraser. Bright yellow in color, reflexed in form.

Lenox. Loosely incurved in type; pleasing shade of yellow.

Mary Donellan. Very tall in growth; flower large and incurved; deep golden yellow in color.

Miss Miriam Hankey. Very fine Japanese incurved; semi-dwarf.

Mrs. G. C. Kelley. Rosy cerise with a reverse of old-rose color.

Mrs. G. Lloyd Wigg. An immense, reflexed flower; light yellow.

Mrs. J. E. Dunne. A Japanese salmon-terra-cotta in color.

Mrs. Wm. Duckham. Japanese reflexed; very deep yellow.

Nakota. Very large incurved bloom. The color is described as orange-buff and is classed as a dark yellow.

Nerissa. A high, well-rounded bloom, rosy mauve in color.

Odessa. One of the finest exhibition yellows for the late shows.

Pockett's Crimson. Crimson, with gold tips to the petals.

Wells' Late Pink. Clear, bright pink in color; easy of culture.

W. Woodmason. Very large bloom, red in color.

Wm. Turner. Pure white bloom, incurved and very large. A general favorite.

Wm. Vert. Deep crimson in color, with gold reflex to petals.

Any of the above plants from 2¼-inch pots, 15 cts. each, \$1.50 per doz., \$8 per 100. Three of a variety at the dozen rate; 25 at the 100 rate.

ROSES FOR GREENHOUSE GROWING

DELIVERED AFTER MARCH

No orders accepted for less than three Rose plants, except where several varieties are ordered and amount to three or more in the aggregate. 2¼-inch pot-plants ready in March; 3-inch in April; 4-inch in June. Any of these may be successfully planted outdoors also.

NOVELTIES FOR 1917

MME. COLETTE MARTINET. In color a glorious golden yellow, deeper than Sunburst—a color that holds and does not fade. In habit it is strong and free-flowering. It will be found excellent when grafted, a decided contrast to Sunburst. Many yellow-toned Roses do not do well grafted, but this is a notable exception. It makes no blind wood, such as is usually used for growing own-root stock, but makes all flowering wood, making an excellent union with Manetti and wonderful growth on this stock. It is a Rose for the private greenhouse and will please both employer and gardener. This Rose is a worthy companion to Ophelia and will not be found lacking. It is the best yellow garden Rose in existence. *Grafted only.*

PRIMEROSE. Among the new Roses, this novelty is very pleasing. Similar to Ophelia, but has more yellow at the base of the petal. It is a charming Rose for the greenhouse, being a free, easy grower and resembling Killarney in habit of growth. *Grafted only.*

TITANIA. A decided novelty. A small, flame-colored Rose that will carry distinction when used for table-work. It is out of the ordinary and should be grown in limited quantity in every private greenhouse. *Grafted only.*

Prices of any of the above three varieties, from 2¼-inch pots, 60 cts. each, \$6 per doz., \$40 per 100; 3-inch pots, 75 cts. each, \$7.50 per doz., \$50 per 100; 4-inch pots, \$1 each, \$9 per doz., \$60 per 100.

INTRODUCTIONS OF 1916

GORGEOUS. A strong-growing variety making strong stems and large, full flowers. In color it is coppery yellow, heavily veined and flushed with salmon. It makes heavy, dark foliage and is in every respect a big Rose. It is an average producer and will be favored by those who wish a Rose which is decidedly out of the ordinary. *Grafted only.*

CLEVELAND. Deep, glowing pink in color, with petals flushed with coppery yellow at the base. It is a strong grower, making heavy wood and foliage. It is distinct in coloring and should give satisfaction to the critical grower. *Grafted only.*

Prices of the above two varieties, from 2¼-inch pots, 30 cts. each, \$3 per doz., \$22.50 per 100; 3-inch 40c. each, \$4 per doz., \$27.50 per 100; 4-inch pots, 50c. each, \$5 per doz., \$35 per 100.

GENERAL LIST OF GREENHOUSE ROSES

Prices of any of the following, except where noted: *Grafted*, from 2¼-inch pots, 25 cts. each, \$2.25 per doz., \$17.50 per 100; 3-inch pots, 30 cts. each, \$3 per doz., \$22.50 per 100; 4-inch pots, 40 cts. each, \$4 per doz., \$30 per 100.

Own-root, from 2¼-inch pots, 15 cts. each, \$1.50 per doz., \$10 per 100; 3-inch pots, 20 cts. each, \$2 per doz., \$15 per 100; 4-inch pots, 30 cts. each, \$3 per doz., \$20 per 100.

Three of a variety at the dozen rate; 25 at the 100 rate.

American Beauty. In a measure replaced by Mrs. Chas. Russell, this old favorite of the public commands the lead as the favorite Rose of the American people. *Own-root only*, from 2¼-inch pots, 15 cts. each, \$1.50 per doz., \$12 per 100; 3-inch pots, 20 cts. each, \$2.25 per doz., \$18 per 100; 4-inch pots, 30 cts. each, \$3 per doz., \$25 per 100.

Cecile Brunner. A delicate pink cluster Rose which, for freedom of flowering and for the varied uses to which it is put by the retail florist, has no equal. It is the corsage bouquet Rose of the nation, and whether known under its right name, or as Sweetheart or Mignon, it will remain one of the popular Roses of commerce.

Double White Killarney. This Rose is the leading and best white Rose ever grown, when quality of bloom is considered. There have been many sports of White Killarney, but this Rose, known as the Budlong strain, has shown superiority to the other sports in every respect.

Francis Scott Key. A new red Rose of great substance and keeping quality; without doubt, it is one of the best new Roses offered to the growers of this country.

Hadley. This deep crimson Rose, which we disseminated, has shown that, if properly handled, it is the best crimson Rose of commerce. It is a strong grower when propagated from heavy wood. It is showing marked improvement, the result of careful selection of grafting wood, and has proved that it is at its best when grafted. Its fragrance is unsurpassed.

Hoosier Beauty. Deep crimson, a color which had not been seen among the Roses of commerce for many years until the advent of Hadley. It is a vigorous grower, producing long, flowering shoots which come to maturity quickly. The flowers are of excellent keeping quality. *Grafted*, from 2¼-inch pots, 30 cts. each, \$3 per doz., \$22.50 per 100; 3-inch pots, 40 cts. each, \$4 per doz., \$27.50 per 100; 4-inch pots, 50 cts. each, \$5 per doz., \$35 per 100.

Irish Fireflame. *Own root only.* From the novelty standpoint, Fireflame is the choice. It is a single Rose, and its flame-colored petals make it very attractive. It is an easy grower, but prefers to be on its own roots.

Jonkheer J. L. Mock. *Grafted only.* Called by some the New La France, which seems to fit this Rose very aptly. A big producer of high-grade flowers on long, strong stems.

Killarney. Killarney varies in color, but its light, delicate pink is still the favorite of many.

Killarney Brilliant. By selection, Killarney Brilliant has come into its own as the best of the pink sports of Killarney. It is deeper in color and fully as strong and vigorous from selected stock. It is the best pink Rose we have for general growing.

Killarney Queen. *Grafted only.* The show Rose of the Killarney family. As it has less petals, it is not at all times the equal of Killarney Brilliant. Its color is distinct, deep rose-pink.

Mrs. Aaron Ward. This is the most profitable yellow Rose we have ever grown. That describes this variety in part. Its Indian yellow bud, changing color with the expanding flower, is a universal favorite. Its uses are varied. It is a summer and a winter Rose.

Mrs. Chas. Russell. By far the most popular Rose that has ever been offered, from the cut-flower standpoint. It is a wonderful keeper when cut, and this fact alone would make it deservedly popular. It is a strong-growing variety, making heavy wood and strong stems. The foliage is heavy and not inclined to mildew. It is not easily propagated or grafted, and this accounts for the advanced price. *Grafted only*, from 2¼-inch pots, 30 cts. each, \$3 per doz., \$22.50 per 100; 3-inch pots, 40 cts. each, \$4 per doz., \$27.50 per 100; 4-inch pots, 50 cts. each, \$5 per doz., \$35 per 100.

Mrs. Geo. Sawyer. A brilliantly colored Rose; deep pink, with a soft tint to it that makes it a favorite. Heavy and double enough to be good in warm weather, and opens perfectly in midwinter. It is a producer and an excellent pink Rose.

Mrs. J. Pierpont Morgan. *Grafted only.* An old-time favorite, retained for the Rose-lover who is partial to this variety; shell-pink, tinged cerise, describes the color. We graft a limited quantity.

Ophelia. This variety stands today as the best light pink Rose ever offered. It is salmon-flesh-pink in color, shading to yellow at the base of the petals in the partially opened flower, and is very attractive, but the real charm lies in the open flower which is, to the Rose-lover, perfection in form and color.

Perie d'Or. A salmon-yellow cluster Rose on the style of Cecile Brunner. Very free-flowering and very distinct.

Radiance. Cerise-pink in color and of easy culture. It is a clean grower, producing good flowers and an abundance of heavy wood. Aside from being a greenhouse favorite, it has the distinction of being the best pink bedding Rose in existence.

Red Radiance. There has been a demand among the Rose-growers of America for a red Rose that is easy to handle, and one that is free from the failings of other well-known red Roses. Radiance is an easy doer, and this red sport of Radiance will be welcomed especially by the private gardeners who grow Radiance extensively. *Grafted or own-root plants*, from 2¼-inch pots, 30 cts. each, \$3 per doz., \$22.50 per 100; 3-inch pots, 40 cts. each, \$4 per doz., \$30 per 100; 4-inch pots, 50 cts. each, \$5 per doz., \$35 per 100.

Richmond. *Grafted only.* Beautifully formed flowers of bright scarlet, brighter than Hoosier Beauty and Hadley. It has been for years the standard of quality for red and crimson Roses.

September Morn. *Grafted only.* The light pink sport of Mme. Paul Euler. A very delicate, soft shade of pink in color.

Sunburst. Long, pointed buds that open perfectly into a sunburst of deep, golden yellow is the best description we can make of this wonderful Rose. From the standpoint of quality, it is the best yellow Rose ever grown. It is at its best on its own roots and we offer own-root plants only. From 2¼-inch pots, 20 cts. each, \$2 per doz., \$15 per 100; 3-inch pots, 30 cts. each, \$3 per doz., \$22 per 100; 4-inch pots, 40 cts. each, \$4 per doz., \$30 per 100.

White Killarney. The Waban strain of White Killarney shares with the Budlong strain of Double White Killarney the honor of being the best White Rose. Growers have their preference and govern their planting accordingly. It is a stronger grower than Killarney.



Planet Jr. Garden Tools

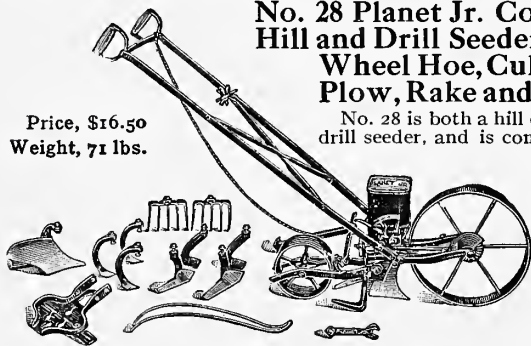


The New "PLANET JR." Catalogue is the handsomest, best and most instructive book ever issued on a similar subject. Full of little points that bring profit. Full of true and handsome illustrations. We mail it free to any address on application.

No. 28 Planet Jr. Combined Hill and Drill Seeder, Single Wheel Hoe, Cultivator, Plow, Rake and Marker

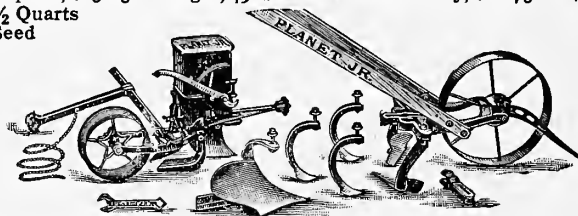
No. 28 is both a hill dropper and drill seeder, and is combined with a steel frame, single wheel hoe, with the most complete equipment of garden tools ever offered.

Price, \$16.50
Weight, 71 lbs.



No. 4 Planet Jr. Combined Hill and Drill Seeder, Wheel Hoe, Cultivator and Plow

Price, complete, \$13.25. Weight, 49 lbs. As a Seeder only, \$10.75. Holds 2½ Quarts of Seed



It is a practical, everyday, time, labor and money saver. It sows in continuous rows with great uniformity, and drops with accuracy in hills, 4, 6, 8, 12 or 24 inches apart. **The feed is automatically** stopped by raising the handles, and started by lowering them.

No. 25 Planet Jr. Combined Hill and Drill Seeder and Double Wheel Hoe, Cultivator and Plow

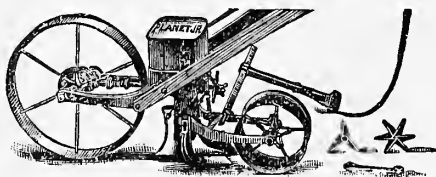
Price, \$16. Weight, packed, 59 lbs. Holds 2½ Quarts of Seed

This new combined machine is intended for gardeners who have a large enough acreage in crops for a Double Wheel Hoe to be used, and yet prefer not to buy seeders and wheel hoes separately.



No. 3 Planet Jr. Hill and Drill Seeder

Price, \$12.50. 15-inch Steel Drive Wheel. Holds 3 Quarts of Seed
Weight, packed, 44 lbs.



A favorite among onion-growers, market-gardeners and seedsmen. **The hill dropping** is simple and reliable, making hills either 4, 6, 8, 12 or 24 inches apart.

Changes of distance between hills

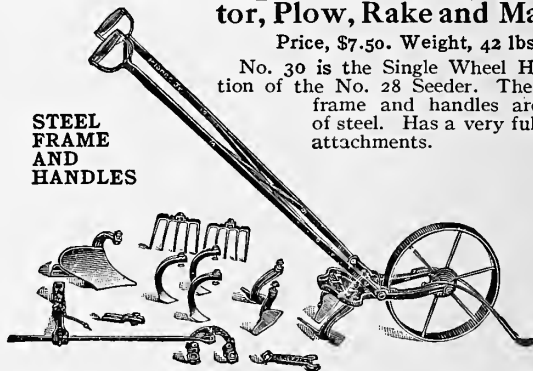
may be made in less than a minute, by substituting one gauge wheel for another.

No. 30 Planet Jr. Single Wheel Hoe, Cultivator, Plow, Rake and Marker

Price, \$7.50. Weight, 42 lbs.

No. 30 is the Single Wheel Hoe portion of the No. 28 Seeder. The wheel, frame and handles are made of steel. Has a very full set of attachments.

STEEL
FRAME
AND
HANDLES



No. 16 Planet Jr. Single Wheel Hoe, Cultivator, Rake and Plow

Price, \$7.25. Weight, 25 lbs.



We offer these Single Wheel Hoes as the highest type of their class. They have a great variety of tools which adapt the implements to a large variety of work, and there is scarcely any garden culture of which they are not capable.

No. 17 Planet Jr. Single Wheel Hoe

Price, \$6.25. Weight, 23 lbs.

You can do more and better hoeing with it in one day than you can in three days with a hand hoe. The No. 17 has a pair of 6-inch hoes, a plow and a set of cultivator teeth, an outfit sufficient for most garden work.

No. 11 Planet Jr. Double Wheel Hoe, Cultivator, Plow and Rake

Price, with Attachments as in cut, \$11. Weight, packed, 37 lbs.



The Planet Jr. Double Wheel Hoes are the greatest cultivating tools in the world for the onion- and small sugar-beet-grower, and also for every grower of garden crops from drilled seed. They do more work and do it better and easier than can possibly be done in any other way. **The frame** is steel.

No. 12 Double Wheel Hoe, Cultivator and Plow.

Price, \$8.75. Weight, 33 lbs.

This tool is identical with No. 11 Wheel Hoe, except that it has one pair plows, one pair hoes, four cultivator teeth and a pair of leaf-lifters only, and is sold at a correspondingly less price. The tools sold with No. 12 are what gardeners use most, and the others can be added as wanted.



Planet Jr. Garden Tools



No. 8 Planet Jr. Horse Hoe and Cultivator

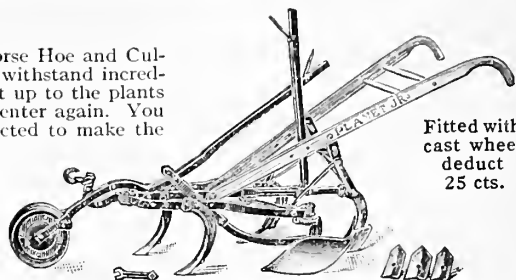
Price, with steel wheel, \$11.50. Weight, packed, 83 lbs.

No other cultivating machine is so widely known as the Planet Jr. Combined Horse Hoe and Cultivator, for it is in use throughout the civilized world. It is so strongly built as to withstand incredible strain, yet it is light and easy to handle. It opens and closes furrows, hoes right up to the plants without danger of injuring, throws dirt to or from the row and throws back from center again. You can cultivate to any depth desired, and adjust for any width. Every part is perfected to make the tool acceptable to the intelligent farmer who knows the best is always the cheapest.

No. 7 Planet Jr. Horse Hoe and Cultivator

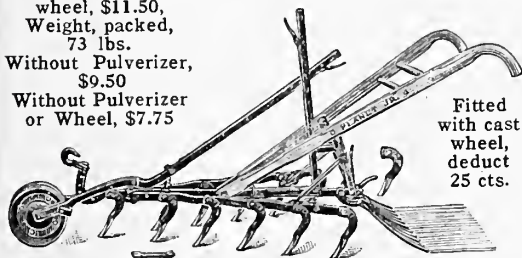
Price, \$11. Weight, packed, 77 lbs.

The No. 7 Horse Hoe is the No. 8 without the depth regulator. It works the same, except that it lacks the steadiness and control of depth made possible by the depth regulator.



Fitted with cast wheel deduct 25 cts.

Complete, with steel wheel, \$11.50.
Weight, packed, 73 lbs.
Without Pulverizer, \$9.50
Without Pulverizer or Wheel, \$7.75



Fitted with cast wheel, deduct 25 cts.

Planet Jr. Twelve-Tooth Harrow, Cultivator and Pulverizer

Gardeners cultivate better than formerly. It has been found to pay best. With the Twelve-Tooth Harrow you go as deep or shallow as you like, come up close to row without injuring plants, cut out all the weeds, stir the soil and mellow and fine it as with a garden rake. You widen and narrow as you please between 12 and 32 inches. It's a special favorite with strawberry-growers, market-gardeners, and truckers.

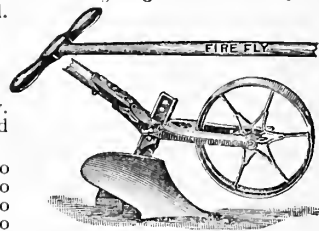
A strawberry runner cutter, consisting of a 10-inch flat steel disc mounted on an outrigger. Extra. Price, \$2.90.

Beet Hoes for hoeing beets and all crops in rows from 15 to 30 inches. They do admirable work, leaving the ground level. Price, per pair, \$1.75.

This tool is most useful in small gardens, opening furrows for manure or seeds, and covering them quickly. Chicken-raisers will find it very useful in plowing up the scratching yards. The mold-board is of tempered and polished steel; the depth is quickly changed. Price, \$2.75.

"Planet Jr." No. 13 Double Wheel Hoe.....	\$6 00
"Planet Jr." No. 18 Single Wheel Hoe. One pair 6-inch hoes only.....	4 50
"Planet Jr." No. 17½ Single Wheel Hoe.....	5 50
"Planet Jr." Grass Edger.....	7 00

The "Fire-Fly" Garden Plow



The Oliver Chilled Plow STEEL BEAM STYLE



The Oliver Chilled Plow is adapted for sandy and stony soils. As a general-purpose Plow it is acknowledged to be the best. Made in one-horse and two-horse sizes, with steel and wood beams.

	Capacity	Steel Beam	Wood Beam
No. B-C One-horse, light.....	5 x10 in.	\$9 50	\$8 75
No. 10 One-horse, heavy.....	5½ x11 in.	11 00	10 00
No. 19 Two-horse, medium.....	6½ x12 in.		12 00
No. 20 Two-horse, medium.....	7 x13 in.		12 50
No. 82 Two-horse, light.....	7½ x13 in.	12 50	
No. 83 Two-horse, medium.....	7½ x14 in.	13 00	
No. 84 Two-horse, heavy.....	9 x16 in.	13 50	

Plows with Wheel, add \$1.25. Plows with Jointer, add \$2.25.

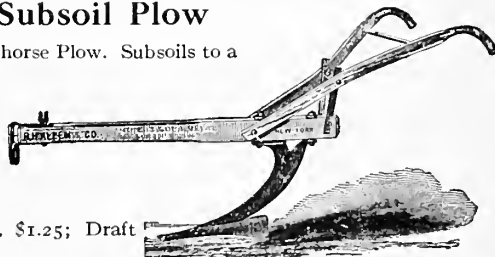
We can also supply "South Bend" and "Syracuse" Plows.

Patent Subsoil Plow

No. 16. One-horse Plow. Subsoils to a depth of 10 inches, \$6.50.

No. 17. Two-horse Plow. Subsoils to a depth of 14 inches, \$7.50.

Add for wheel, \$1.25; Draft rod, \$1.75.



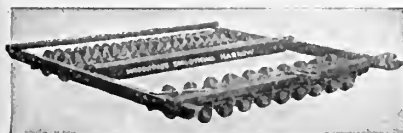
"Boss" Combination Plow

The handiest one-horse turning Plow for use by market-gardeners and farmers. Actually four Plows in one. It can be worked as a medium and heavy one-horse Plow, and as a Plow for operating among cabbage, strawberries, etc. \$5.75.

With the double mold-board and share, \$7.75.



Steel Disc Smoothing Harrow



The frame measures 6 feet 8 inches by 6 feet, and has four sets of rollers, having 58 discs, 8 inches in diameter. Price, \$23.50; one-horse size, \$22.50.

American Corn Planter

Is fitted with patent adjustable seed disc and brass-spring cut-off. Does accurate work. \$2.25.

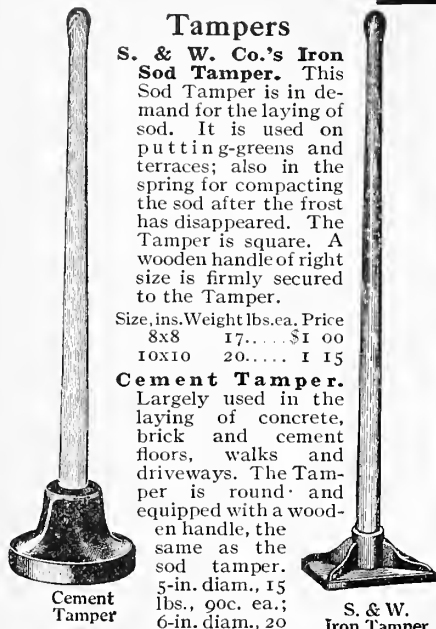
Garden and Lawn Tools

Tampers

S. & W. Co.'s Iron Sod Tamper. This Sod Tamper is in demand for the laying of sod. It is used on putting-greens and terraces; also in the spring for compacting the sod after the frost has disappeared. The Tamper is square. A wooden handle of right size is firmly secured to the Tamper.

Size, ins. Weight lbs. ea. Price
8x8 17..... \$1 00
10x10 20..... 1 15

Cement Tamper. Largely used in the laying of concrete, brick and cement floors, walks and driveways. The Tamper is round and equipped with a wooden handle, the same as the sod tamper.
5-in. diam., 15 lbs., 90c. ea.;
6-in. diam., 20 lbs., \$1.15 ea.



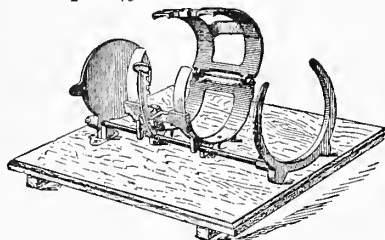
S. & W. Sod Perforator

The best low-priced device for renovating bad spots in lawns, terraces, greens, etc. Before sowing grass seed, use the Sod Perforator. The operation permits the seed to enter the soil, where it is covered with fertilizer or by sprinkling the surface. The seed will germinate and come up uniformly, producing a vigorous growth of rich grass. The spikes are firmly set in an oak block, made in two halves and put together with screws. The handle is the right thickness and length. Made in two sizes.
10x10 in., \$2.75 10x14 in., \$3.00



Asparagus Knives
Imported English.
Saw-Tooth, Plain. \$1.50 each.
Highly Finished. \$1.75 each.

American Asparagus Knives.
Straight Edge. 40 cts. each, \$4.50 per doz.
V-Shape. 45 cts. each, \$5 per doz.



Acme Asparagus Buncher

No. 1 makes bunch 3 to 3½ in. diam. \$2 each.
No. 2 makes bunch 4 to 4½ in. diam. Length, adjustable, 7 to 9 in. \$2.25 each.

For Garden Set of Tools and the S. & W. Co.'s Combination Tool Basket, see page 133.



Norcross Cultivator Hoe and Weeder

Wherever vegetables, plants and flowers are grown, these modern tools are rapidly replacing the ordinary hoe. They are made in three sizes, and can be used in wide or narrow rows. Will also cultivate both sides of a row at one operation, when the middle prongs are removed. The three-prong weeder is the women's size. They destroy weeds, leave the soil level, loose and untrampled.
5-prong, \$1; 3-prong, 75c.; Midget, 35c.

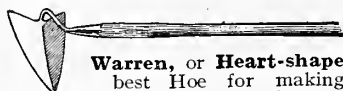


Hoes

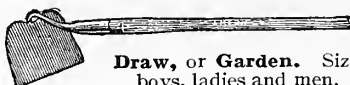
English Scuffle Hoe. Imported. Positively the best. The quality of material used and finish is superior to all others.

Size	Each	Size	Each
4-in.....	\$0 55	8-in.....	\$0 80
5-in.....	60	9-in.....	90
6-in.....	65	10-in.....	1 00
7-in.....	70	12-in.....	1 25

Extra-strong handles, 4½ ft., 15 cts.; 6 ft., 20 cts. each.

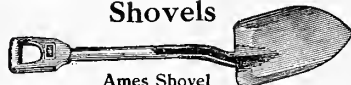


Warren, or Heart-shaped. The best Hoe for making drills, covering, hoeing, and weeding.
Each
Small size.....\$0 75
Medium size..... 85
Large size..... 95



Draw, or Garden. Sizes for boys, ladies and men.
Each Doz.
4- and 5-in.....\$0 50 \$5 40
6-, 7-, and 7½-in..... 60 6 50

Shovels



Ames Shovels are the best manufactured; give best service.
Each
Square Point, D Handle.....\$1 50
Round Point, D Handle..... 1 60
Long-Handle Shovels, same price.

S. & W. Co. Shovels.

Square Point, D Handle..... 1 25
Round Point, D Handle..... 1 25
Long-Handle Shovels, same price.

Spades



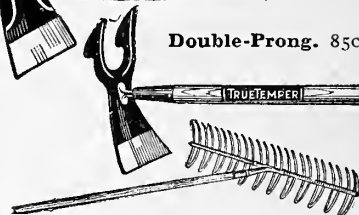
Ames Spades are the same grade as the Ames Shovels.
Each
D Handle and Long Handle.....\$1 50
S. & W. Co. Spades are the same grade as S. & W. Co. Shovels.
Each
D Handle and Long Handle.....\$1 25
Boys' Spades..... 90

HOES, continued

Acme Single Prong. Acme Hoes are similar to the Warren, and are used by florists and gardeners.
75 cts. each.

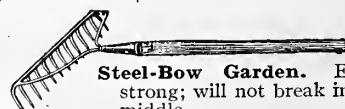


Double-Prong. 85c.



Rakes

Reversible Steel. Suitable for lawn and garden. Has 24 teeth. 60 cts. each.



Steel-Bow Garden. Extra strong; will not break in the middle.
Each

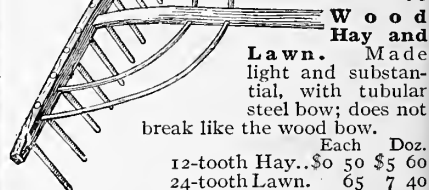
12-tooth.....\$0 80
14-tooth..... 85
16-tooth..... 90



Steel Garden. Cut from one piece of steel; strong and durable.
Each

10-tooth.....\$0 65 14-tooth.....\$0 75
12-tooth..... 70 16-tooth..... 80

Steel Gravel. Like the Garden Rake. Made substantial, with short teeth. Each
14-tooth.....\$0 75
16-tooth..... 85
18-tooth..... 95

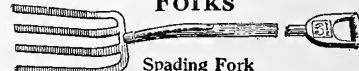


Wood Hay and Lawn.

Made light and substantial, with tubular steel bow; does not break like the wood bow.

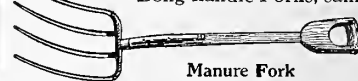
Each Doz.
12-tooth Hay..\$0 50 \$5 60
24-tooth Lawn. 65 7 40

Forks



Spading Fork

Spading Forks. Best grade; tines spear-pointed with diamond-shaped backs; handle strapped both sides. Of superior quality and very strong.
Each
4-tine, D Handle.....\$1 25
5-tine, D Handle..... 1 50
Long-handle Forks, same price.



Manure Fork

Manure Forks. Best grade; strong oval tines.
Each
4-tine, D Handle.....\$1 25
5-tine, D Handle..... 1 50
6-tine, D Handle..... 1 75
Long-Handle Forks, same price.

Hay Forks.

Best grade; strong oval tines, made only with long handles.
Each
2-tine, Long Handle.....\$0 75
3-tine, Long Handle..... 85
4-tine, Long Handle..... 1 00
Boys' Spading Forks. 90

Small Garden Tools

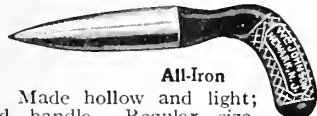
Dibbles or Dibbers

Just the tool for transplanting tomatoes, cabbage, celery, etc.

Brass point and wood handle. The best Dibber. Polishes quickly; does not rust.

70 cts. each, \$8 per doz.

Steel point and wood handle. Regular size, 9 3/4 in., 50 cts. each, \$5.50 per doz. Small size, 8 in., 40 cts. each, \$4.50 per doz.



All-Iron

All-Iron. Made hollow and light; japanned handle. Regular size, 9 3/4 in., 30 cts. each, \$3.25 per doz.



Gem Hand Fork

Has three steel prongs and a finished handle. Is a handy Fork for transplanting strawberries, loosening the soil, etc. 35 cts. each.

Grass Hooks



Imported English. With heavy riveted back, thin cutting blade, easy to sharpen; forged from the best-grade steel.

No. 2, 40 cts. each; No. 3, 50 cts. each; No. 4, 60 cts. each.



Blue Ribbon. Tempered steel blade; black-enamelled handle. Used also for a Corn Hook and for clipping hedges. Blade can be detached and packed for parcel post. 60 cts. each, 3 lbs., packed.

Scythes



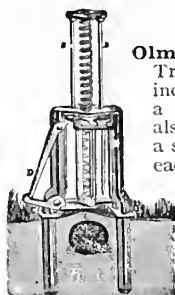
Imported English. Has a riveted back, broad, thin, light blade. Best Scythe for cutting grass, rye, oats, etc.

30-in. \$1 40 | 34-in. 1 60
32-in. 1 50 | 36-in. 1 75



The Little Giant. Has a ribbed back, is heavier and better adapted to rough work. 32-in. \$1 35 | 36-in. \$1 60
34-in. 1 45 | 38-in. 1 75
Scythe Snath, or Handle. The very best, with patent socket. \$1.20.

Mole Traps



Olmstead's Improved

its going off unless the trigger is touched. Made of all steel and tinned. Six in a crate. The spears are spring steel, therefore do not have to be so long as soft steel. 90 cts. each, \$9 per doz.

Reddick's. \$1 each, \$10 per doz.

Out-of-Sight. 75 cts. ea., \$8 per doz.



The Rittenhouse

Garden Line Reels

Malleable Iron. Holds 100 feet. 60 cts.

Eureka. Galvanized steel. Single, 500 feet size, \$1.50. Double, 1,000 feet size, \$2.



Line Reel

Garden Line

Best Braided Linen. 100 feet, one length, 75 cts. 200 feet, one length, \$1.40

Trowels



Slim Jim. Excellent for setting bulbs or transplanting. 5-inch size, 15 cts.; 7-inch size, 25 cts. each.



Solid Steel. This Trowel is second to the Maynard Trowel in quality and finish. The blade and shank are one piece, forged out of the best of steel. Made in three sizes. 5-in., 45 cts.; 6-in., 50 cts.; 7-in., 55 cts. each.



The Maynard is the best made Trowel. The ferrule and shank, as well as the blade, are forged in one piece. Only the very best material used. 6-in., 75 cts. each.



Florist's Steel Trowel

This Trowel is made in one piece of heavy sheet steel. One size only. 6-in., 30 cts. each.



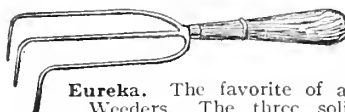
Cleveland Lawn Weeder

TROWELS, continued

Transplanting. Very handy for transplanting cabbage, tomatoes, etc. Solid steel shank and blade. 50 cts. each, \$5.50 per doz.



Weeders



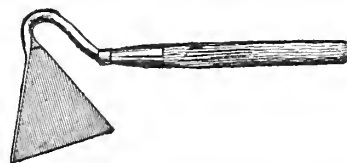
Eureka. The favorite of all hand Weeders. The three solid steel prongs are set 1 1/2 inches apart to allow cultivating between two or more plants at once. Short handle, 35 cts. each. Larger size, 24-inch handle, 45 cts. each.



Excelsior Finger. This five-short-prong Weeder is excellent for loosening the soil in small flower-beds, etc. 15 cts. each, \$1.50 per doz.

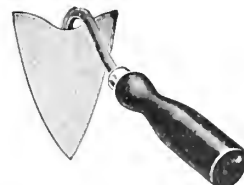


Hazeltine's Hand. Better known as Beet Weeder. A handy tool for weeding between beets, carrots, and all small vegetables and flowers. Made of 1-inch-wide spring steel. 25 cts. each, \$2.60 per doz.



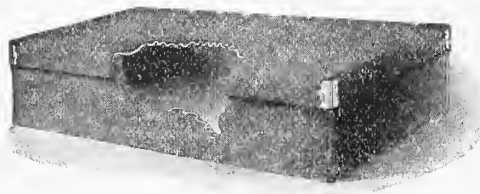
Three-Cornered Onion. For weeding onions, carrots, etc. Also for cleaning between rows. 30 cts. each, \$3.30 per doz.

Cleveland Lawn. Is simple to operate; it not only saves the back, but it is actually a pleasure to use it. The cut is a good illustration, showing how to work it. 70 cts. each, \$8 per doz.



Midget Warren Hoe. Blade and shank forged from the best quality of steel. Handle is turned, polished, and enameled. Excellent for making drills and covering; also for transplanting and weeding. 40 cts. each, \$4.50 per doz.

Flower Boxes, Baskets, Pots and Fiberware



Corrugated Flower Box

Flower Boxes

Cardboard, Flower. Green; lock corners.

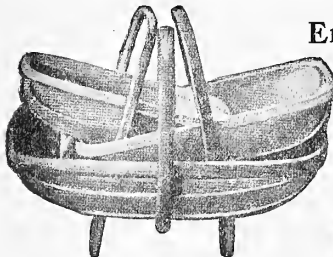
No.	Depth	Length	Width	Doz.	100
No. 1.	3 in.	18 in.	5 in.	\$4 50	
No. 2.	3½ in.	21 in.	7 in.	7 00	
No. 3.	4 in.	24 in.	8 in.	8 50	
No. 4.	5 in.	28 in.	8 in.	10 50	
No. 5.	5 in.	36 in.	8 in.	14 00	

Violet.—

No.	Length	Width	Depth	Doz.	100
No. 5.	11 in.	5½ in.	8 in.	\$10 00	
No. 10.	9 in.	5 in.	6 in.	7 00	

Corrugated Cardboard. Very heavy and durable; extensively used by florists for shipping cut-flowers.

No.	Length	Width	Depth	Doz.	100
A.	20 in.	7 in.	4 in.	\$1 50	\$11 00
B.	28 in.	8 in.	5 in.	2 00	15 00
C.	30 in.	12 in.	6 in.	3 00	20 00
D.	36 in.	14 in.	8 in.	3 50	27 00
E.	48 in.	14 in.	8 in.	4 50	33 00
F.	36 in.	12 in.	6 in.	3 20	24 00

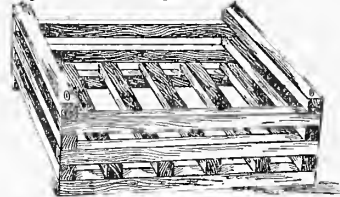


English Garden Baskets

English Garden Baskets

Durable, light and handy for cut-flowers or vegetables.

No.	Length	Width	Each	Doz.
2.	11½ in.	6 in.	\$0 60	\$6 50
4.	15 in.	8½ in.	80	8 50
5.	17½ in.	9½ in.	85	9 00
6.	20½ in.	10½ in.	90	10 00
8.	26 in.	14 in.	125	14 00
9.	28 in.	15 in.	150	17 00



Orchid Basket

Orchid Baskets

Size	Doz.	100
6 in.	\$4 50	\$31 50
8 in.	5 50	45 00
10 in.	6 50	48 00
12 in.	7 50	56 00

Flower Vases. FIBERWARE, Waterproof

For displaying cut-flowers. Not easily broken like earthenware; do not rust like metal Vases. Order by number. Inside dimensions are given.

No.	Depth	Diam.	Each	Doz.
0.	13 in.	8 in.	\$0 90	\$9 80
1.	10½ in.	5½ in.	80	8 65
2.	9 in.	4½ in.	65	7 45
3.	6½ in.	4 in.	55	6 20
4.	5 in.	3 in.	45	4 90
00.	21 in.	9½ in.	3 40	38 30
01.	20 in.	7 in.	1 65	18 65
11.	18 in.	6 in.	90	9 80
22.	15 in.	4½ in.	80	8 65
33.	12 in.	4 in.	65	7 45
44.	9 in.	3 in.	55	6 20



Flower Vase

Azalea Pots, EARTHENWARE

Diam.	Doz.	100	1,000	Diam.	Doz.	100	1,000
5 in.	\$0 50	\$3 50	\$32 40	8 in.	\$1 75	\$12 50	\$118 00
6 in.	75	5 00	49 00	9 in.	2 75	20 00	180 00
7 in.	1 25	8 50	81 00	10 in.	3 50	25 00	245 00

Flower Pots, Standard

EARTHENWARE. Best on the market

Diam.	Doz.	100	1,000
2 in.	\$0 15	\$0 75	\$6 75
2½ in.	20	1 00	9 00
3 in.	24	1 25	11 70
4 in.	30	2 00	18 00
5 in.	50	3 50	32 40
6 in.	75	5 00	49 00
7 in.	1 25	8 50	81 00
8 in.	1 75	12 50	119 00
9 in.	2 75	20 00	180 00
10 in.	3 50	25 00	245 00
12 in.	7 20	55 00	500 00



Flower Pot

Saucers of same material, to fit pots, furnished extra

Diam.	Doz.	100	1,000	Diam.	Doz.	100	1,000
4 in.	\$0 20	\$1 40	\$13 00	8 in.	\$0 72	\$5 25	\$50 00
5 in.	30	1 90	18 00	9 in.	1 00	7 00	68 00
6 in.	40	2 80	27 00	10 in.	1 20	8 25	81 00
7 in.	50	3 80	36 00	11 in.	1 50	11 00	100 00



Flower-Pot Saucer

No.	Diam. outside	Each	Doz.	No.	Diam. outside	Each	Doz.
5	5 in.	\$0 17	\$1 95	10	10 in.	\$0 24	\$2 75
6	6 in.	18	2 00	12	12 in.	29	3 30
7	7 in.	19	2 20	14	14 in.	38	4 25
8	8 in.	21	2 35	16	16 in.	66	7 40
9	9 in.	23	2 60	18	18 in.	78	8 70

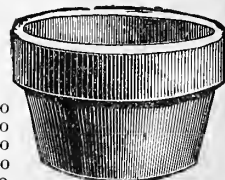
Flower-Pot Saucers

FIBERWARE, Waterproof

Light and not readily broken; have a surface that will not scratch like earthenware. Order saucer 2 inches larger than the bottom diameter of pot.

Bulb Pans. EARTHENWARE

Diam. at top	Depth	Doz.	100	1,000
8 in.	4 in.	\$1 75	\$12 50	\$118 00
10 in.	5 in.	3 50	25 00	245 00
12 in.	6 in.	7 20	55 00	500 00
14 in.	7 in.	10 00	82 00	800 00
16 in.	8 in.	30 00	200 00	1800 00



Bulb Pan

Square Seed Pans

EARTHENWARE



Square Seed Pans

Size	Doz.	100
6x 6 in.	\$6 00	\$45 00
8x 8 in.	8 00	62 00
10x10 in.	10 00	76 00
12x12 in.	12 50	90 00

Paper Flower Pots, Neponset

Very economical; waterproof; can be nested closely for shipping.

Diam.	Doz.	100	1,000
2½ in.	\$0 10	\$0 50	\$4 00
3 in.	12	70	6 00
3½ in.	14	90	7 00
4 in.	20	1 20	8 00
5 in.	25	1 50	12 00
6 in.	30	2 00	16 00



Paper Pot

Flower-Pot Brackets

Made of steel, artistic in design, finished in black. Saucers are absolutely secured by spring clasp.

No.	Length of arm,	Clasp will hold	Each
No. 1.	Length of arm, 7 in.	Clasp will hold 5-in. pot.	\$0 45
No. 2.	Length of arm, 8 in.	Clasp will hold 6-in. pot.	60
No. 3.	Length of arm, 10 in.	Clasp will hold 7-in. pot.	75

Flower-Pot Handles and Hangers

(Krick's Perfect)

No.	Will fit from	Doz.
No. 0.	Will fit from 2- to 3½-in. pots.	\$0 20
No. 1.	Will fit from 3½- to 5-in. pots.	30
No. 2.	Will fit from 5- to 8-in. pots.	40
No. 3.	Will fit from 8- to 12-in. pots.	50

Self-Watering Hanging-Baskets and Boxes, Thermometers and Plant-Tubs



Self-Watering Hanging-Basket

as needed; it is only necessary to examine the surface of the soil occasionally and, if dry, refill the reservoir. A liberal supply of air to the roots is constantly maintained through the sponges, the soil will always be found mealy and loose, and the moisture is always evenly distributed from top to bottom of soil. Do not refill reservoir unless the condition of the soil shows that watering is needed.

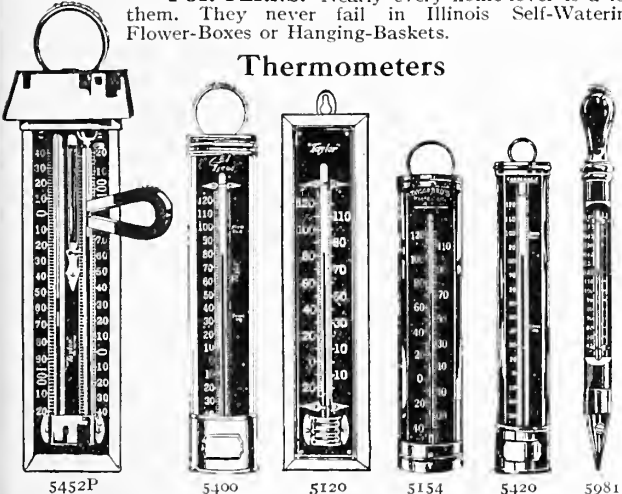
Price for either Design A or B

No.	Height in.	Width in.	Length in.	Capacity qts.	Price	No.	Height in.	Width in.	Length in.	Capacity qts.	Price
1	8	9 1/2	23	2 1/2	\$2 30	6	8	9 1/2	33	5	\$3 30
2	8	9 1/2	25	3	2 50	7	8	9 1/2	35	5 1/2	3 50
3	8	9 1/2	27	3 1/2	2 70	8	8	9 1/2	37	6	3 70
4	8	9 1/2	29	4	2 90	9	8	9 1/2	39	6 1/2	3 90
5	8	9 1/2	31	4 1/2	3 10	10	8	9 1/2	41	7	4 10

FOR BULBS. Our Self-watering Baskets and Boxes are, without question, the most satisfactory device for growing bulbs ever devised. A beautiful and certain growth, with a minimum of care.

FOR FERNS. Nearly every home-lover is a lover of ferns, but few succeed with them. They never fail in Illinois Self-Watering Flower-Boxes or Hanging-Baskets.

Thermometers



- No. 5452P, Self-Registering.** (Siexe's Pattern.) Copper case, black brass scale, white figures. **Maximum and Minimum.** 8-inch, \$3.50; 10-inch, \$4. Magnet with each.
- No. 5400.** Black japanned heavy tin case; brass scale, white figures. (Mercury.) Scale range, 10 to 40 degrees below zero to 120 above. **Standard Grade.** 8-inch, 75 cts.; 10-inch, \$1.
- No. 5420.** Black japanned heavy tin case. For greenhouses. Black oxidized brass scale, white figures. (Spirit.) 8-inch, 30 cts.; 10-inch, 45 cts.
- No. 5154.** Copper case; distance reading. Black oxidized brass scale, white figures. (Spirit.) Scale range, 120 degrees above to 40 degrees below zero. 8-inch, 50 cts.; 10-inch, 75 cts.
- No. 5981. Hotbed.** Wood frame, 16 inches, with point. Brass oxidized scale, white figures and graduations. Best grade, \$1.50.
- No. 5120.** Distant reading. Wood-back Mission finish, brass scale, white figures and graduations. (Spirit.) Easy to read at distance. 8-inch, 50 cts.; 10-inch, 75 cts.

Self-Watering Hanging-Baskets

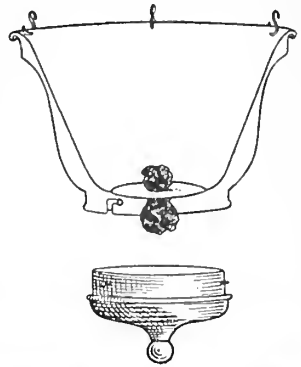
These Hanging-Baskets are made entirely of heavy sheet-zinc, spun into form and without seams; can be used in a library or parlor or any desired place without danger of damaging the most delicate furniture or fabric, as leaking or dripping of water is absolutely impossible.

Filling the water-container is necessary but once a week, and this can be accomplished from the floor without disturbing the basket or use of anything on which to stand.

A strong, solid brass chain is furnished. Additional chain required charged for at 3 cts. per lineal foot.

We also furnish a strong, neat bracket, suitable for hanging-baskets, bird-cages, etc., With screws, 25 cts.

- Diameter 9 in., capacity 2 pints \$2 50
- Diameter 10 in., capacity 2 pints 3 00
- Diameter 12 in., capacity 3 pints 4 00



Illinois Self-Watering Flower-Boxes

Remarkable for the small amount of attention required to secure the finest growth in all kinds of plants. The reservoir in bottom provides the water



Design A

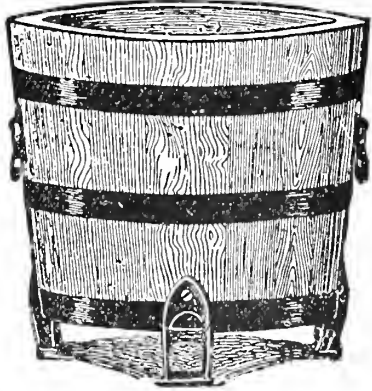
TUBS

Plant-Tubs, New York Cedar. Made of the very choicest seasoned cedar, highly finished with black hoops; will last twice as long as cypress tubs. Inside measure

No.	Diam.	Height	Price
1	12 in.	10 1/2 in.	\$1 20
2	13 in.	13 in.	1 55
3	14 1/2 in.	15 in.	1 90
3 1/2	16 1/2 in.	15 3/4 in.	2 50
4	19 1/2 in.	17 in.	2 90
5	22 1/2 in.	18 1/2 in.	3 60

Tree-Tubs, Cedar. Heavy; particularly adapted for large, heavy plants.

No.	Outside diam.	Length of staves	Price
0	27 in.	24 in.	\$6 60
1	25 in.	22 in.	5 50
2	23 in.	20 in.	5 00
3	21 in.	18 in.	4 50
4	18 in.	16 in.	4 00



New York Cedar Tub

No.	Outside diam.	Length of staves	Price
5	16 in.	14 in.	\$3 25
6	14 in.	12 in.	2 75
7	13 in.	11 in.	2 50
8	12 in.	10 in.	2 25

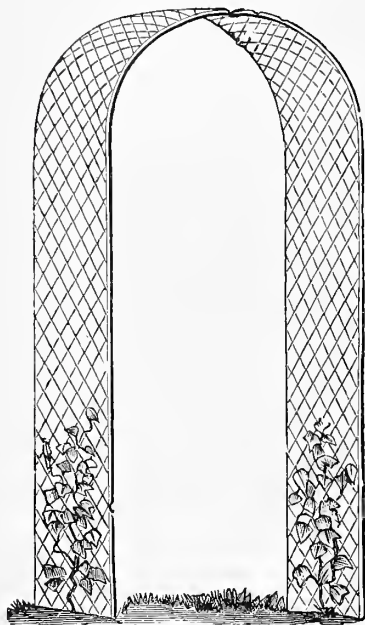
Rolling Stands

Heavy Fiber-Ware, Waterproof. Stand consists of two pieces of steel, securely riveted to four casters. Will support heavy tubs, pots, etc. Can be readily rolled about without injuring the floor. No dampness under the stand. When ordering give the outside diameter of bottom of tub.



Outside diam.	Takes tubs of bottom diam.	Each	Doz.
12 in.	10 in.	\$0 85	\$9 40
14 in.	11 in.	1 00	11 80
16 in.	13 in.	1 30	14 75
18 in.	15 in.	1 60	17 70
20 in.	17 in.	1 90	20 60
22 in.	20 in.	2 35	26 52

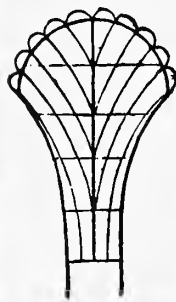
Wire Arches, Hanging-Baskets and Rustic Ware



Wire Arch



Vine Trainer



Fan-shaped Trellis

Wire Arch

Made of extra-heavy galvanized iron. Splendid for vines and rambling roses. 18 inches wide, 7½ feet high, center space between arch 4½ feet, \$9; 30 inches wide, same height and space between arch, \$13. Arches of larger sizes made to order on request.

Wire Vine Trainer

Made of heavy galvanized iron. 18 inches wide, made any height up to 12 feet, plain, without border, 45 cts. per lineal foot. Other widths, prices on request.

Wire Fan-shaped Trellis

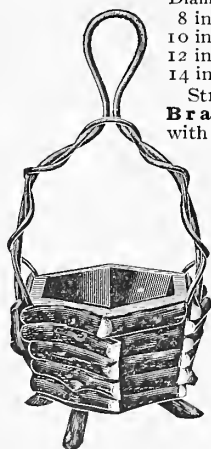
Made of heavy galvanized iron. 24 inches high, \$1.25; 36 inches high, \$1.75; 48 inches high, \$2.50.

Wire Hanging-Basket

Steel wire, heavily galvanized. Line with moss and fill with house plants requiring little soil. They look very unique.

Diam.	Each	Doz.
8 in.....	\$0 55	\$5 50
10 in.....	05	6 50
12 in.....	75	7 00
14 in.....	85	8 00

Strong, neat, swivel Brackets furnished with screws, 25 cts.

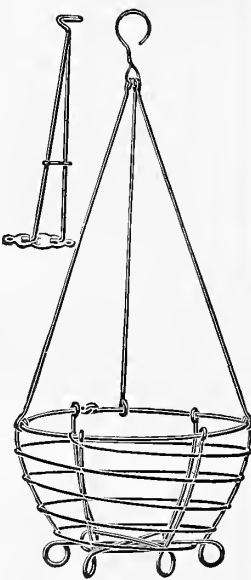


Rustic Hanging-Basket

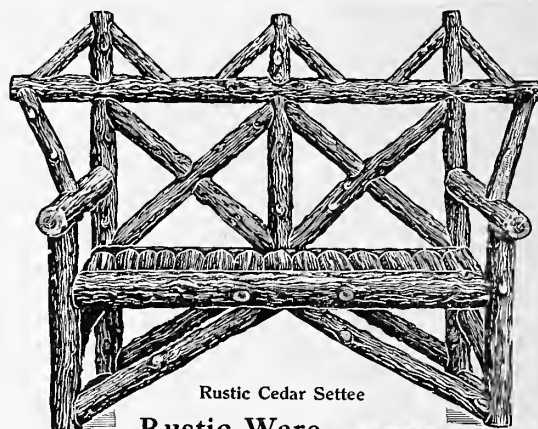
Rustic Hanging-Basket

Bowl is hexagon-shaped, covered with laurel; fine finish. Are very attractive when filled with ferns and running plants.

Diam.	Each	Doz.
10 in..	\$1 75	\$15 00
12 in..	2 00	20 00
15 in..	2 50	25 00



Wire Hanging-Basket



Rustic Cedar Settee

Rustic Ware

Rustic Cedar Settee. Durable made of natural cedar, similar to illustration. 4 ft. \$8, 5 ft. \$9, 6 ft. \$10.



Rustic Cedar Table

Rustic Cedar Vase. 12 inches inside diameter of bowl by 3½ feet high, \$4.50; 16 inches diameter, 3½ feet high, \$5.

Rustic Cedar Table. 24 inches in diameter by 30 inches high, \$7.50; 30 inches in diameter, by 30 inches high, \$9.



Rustic Cedar Vase

Bring Back the Birds



No. 2



No. 6



No. 3

It is only human to induce these jolly little friends to make their homes with us. Many country homes have been made a paradise by protecting and sheltering the merry songsters. The life and joy they bring to us and the lessons they teach are well worth the attention we give them. Besides, they carry away thousands of harmful worms and insects. Provide them with comfortable homes, and protect them from their enemies. **State when ordering what kind of birds you want to encourage.**

	Width	Height	Depth	Price
No. 1 Log Cabin.....	10 in.....	10 in.....	10 in.....	\$1 50
No. 2 Log Cabin.....	10 in.....	12 in.....	14 in.....	2 50
No. 3 Log Cabin.....	14 in.....	12 in.....	17 in.....	3 50
No. 4 Log Cabin.....	14 in.....	17 in.....	16 in.....	4 00
No. 5 Log Cabin.....	14 in.....	18 in.....	19 in.....	5 00
No. 6 Log Cabin.....	12 in.....	14 in.....	19 in.....	3 50
No. 7. Log Cabin. Made for wrens; feed-box under roof.....				1 50
No. 8. Log Cabin. Robins and bluebirds; feed-box under roof.....				1 50

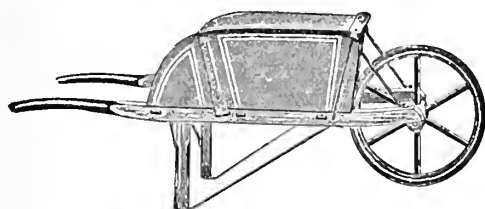
No. 1 is a one-family cabin; Nos. 2, 3, 4 and 6 are two-family cabins; No. 5 is a four-family cabin.

Wren-Houses

Made for wrens and small birds only. Several designs. 35 cts. each, \$3.80 per doz.



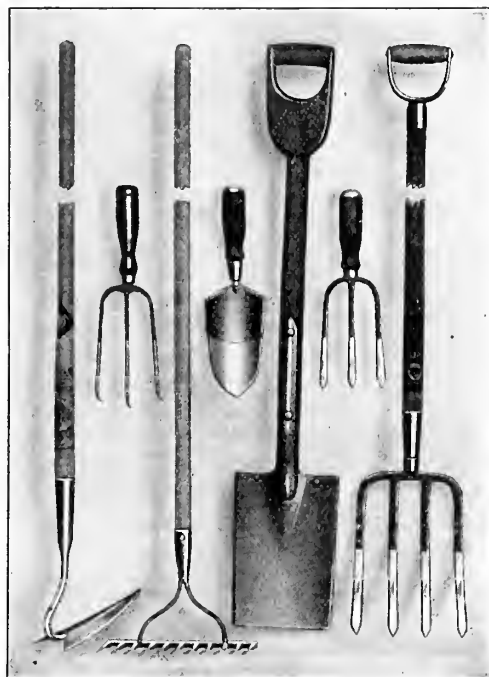
BASKETS AND GARDEN TOOLS



S. & W. Co.'s Garden Barrow

One of the most useful articles on the list of garden and lawn tools. Materials are selected oak, mortised and bolted together, strengthened with six iron braces. Made substantial, light and for long service. Wheels with 3-inch tread are preferred.

SIZE	Front Width	SIZE OF BOX		Rear Width	SIZE OF WHEEL				
		Depth	Length		Diam.	Tread	Price	Tread	Price
Medium.....	18½ in.	12 in.	26½ in.	23 in.	20 in.	1½ in.	\$4.50	3 in.	\$5.00
Regular.....	20 in.	12 in.	28 in.	24 in.	22 in.	1½ in.	5.00	3 in.	5.50



S. & W. Co.'s Garden Tool Set

The S. & W. Co.'s Garden Tool Set is a selection of the most useful tools of the size and kind used in the garden. They are light, but strong and the right size for ladies' and children's use. They consist of 1 Spade, 1 Digging Fork, 1 Rake, 1 Hoe, 1 Trowel, 1 Hand Fork, and 1 Hand Weeder. Every tool is of good quality, well made and will give good service. Price \$4.50.

General-Purpose Baskets

Used for many purposes on the farm. Handy for carrying corn, coal, wood, vegetables, leaves and rubbish, etc. Best oak splint, reinforced with iron hoops. Made strong and for long service.

1-bus. size.....	\$1 00
1½-bus. size.....	1 25
2-bus. size.....	1 75
3-bus. size.....	2 75
4-bus. size.....	3 25

General-Purpose Basket



S. & W. Co.'s Combination Tool Basket

This is a white willow basket made light but strong with three tool compartments and a large space for cut-flowers, etc. The tools shown in the illustration and selected from our best kinds are: 1 pair Goatskin Gloves, 1 pair S. & W. Co.'s Pruning Shears, 1 pair Ladies' Rose Shears, 1 pair Flower-gathering Scissors, 1 No. E 2-blade Budding Knife, 1 Solid Steel Trowel, 1 Slim Jim Trowel, 1 Gem Hand Fork, 1 Eureka Weeder, 1 Steel-Point Dibber and 1 Tube of Soft Tying Twine. Each tool is of good quality and all very useful.

Basket and Tools, complete.....	\$12 00
Basket, without Tools.....	3 00

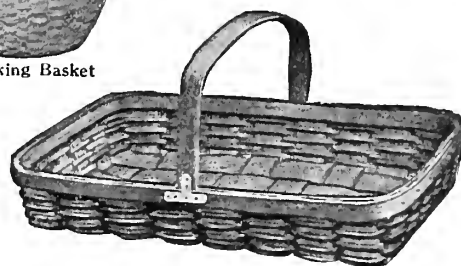
Picking Baskets

A handy basket for picking fruit and gathering eggs, etc. Best oak-splint, stiff bail, light and well made. Indispensable on the farm.

½-bus. size.....	\$0 75
1-bus. size.....	1 00



Picking Basket



Flower and Fruit Basket

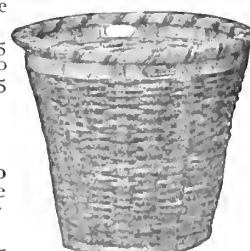
This basket is made light and especially for gathering cut-flowers, berries, grapes, asparagus, and small vegetables. A handy basket for carrying berry boxes while being filled. Handle has two galvanized braces. Light, strong and handy. Made in 3 sizes.

	Length	Width	Depth	
Small size....	18 in.	10 in.	3½ in.	\$0 45
Medium size....	20 in.	12 in.	3½ in.	60
Large size....	22 in.	14 in.	3½ in.	75

Bamboo Basket

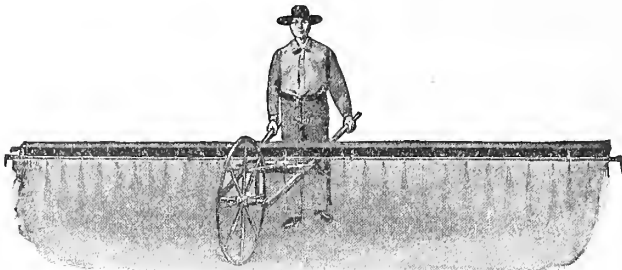
Better known as Long Island Potato Basket. Woven split rattan; handle opening under rim. Well made. A very good basket for potatoes.

½-bus. size.....	\$0 75
1-bus. size.....	1 00



Bamboo Basket

Grass Seed and Fertilizer Sowers

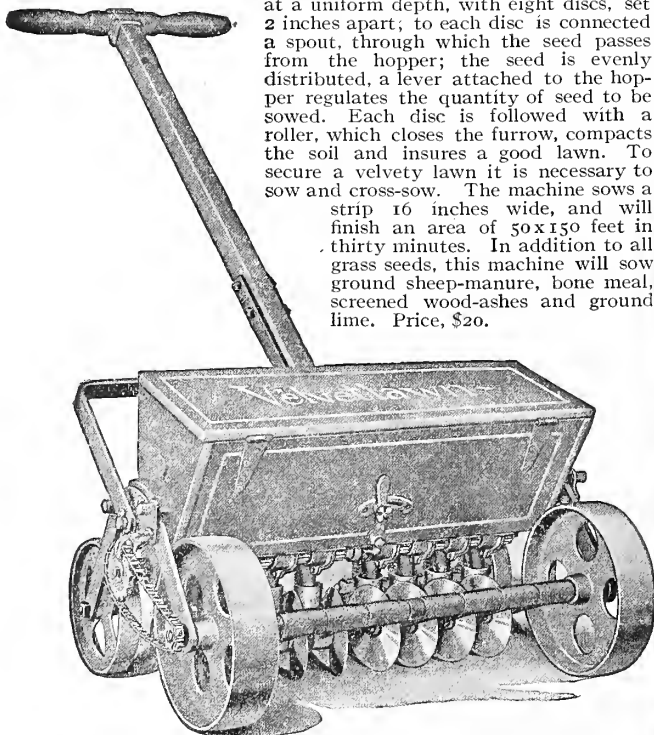


S. & W. Co.'s No. 5 Wheelbarrow Seed Sower

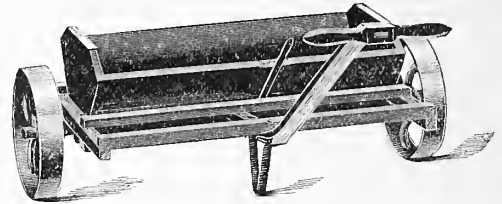
For over thirty years this has been a valuable and indispensable broadcast Seed Sower. Over 200,000 have been sold. We recommend this practical machine for sowing all grass mixtures. It is provided with a double hopper, 14 feet in length and well balanced. One side of this seed hopper is adapted for all heavy seeds, such as timothy, clover, alfalfa, millet, etc. The opposite side sows the light, chaffy seeds, such as red-top, blue grass, bent grass, orchard grass, etc. The machine is simple to operate. A boy can work it. The operator can easily regulate the machine to sow any desired quantity to the acre. It does not clog and will sow evenly an area 14 feet wide. Full directions are in each hopper. Weight, 45 lbs. Price, \$11.

"Velvetlawn" Seeder

The "Velvetlawn" Seeder is producing first-class lawns all over the country, with a reduced cost and a saving in grass seed. This machine sows the seed in and not on top of the soil. Wind, heavy rains, and birds cannot disturb the seed. The soil is opened at a uniform depth, with eight discs, set 2 inches apart; to each disc is connected a spout, through which the seed passes from the hopper; the seed is evenly distributed, a lever attached to the hopper regulates the quantity of seed to be sowed. Each disc is followed with a roller, which closes the furrow, compacts the soil and insures a good lawn. To secure a velvety lawn it is necessary to sow and cross-sow. The machine sows a strip 16 inches wide, and will finish an area of 50x150 feet in thirty minutes. In addition to all grass seeds, this machine will sow ground sheep-manure, bone meal, screened wood-ashes and ground lime. Price, \$20.



FOR A GOOD LINE OF LAWN MOWERS AND LAWN ROLLERS, SEE PAGES 135, 136 AND 137



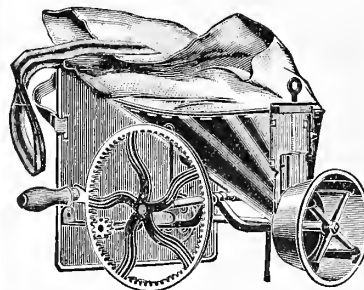
Stevens' Fertilizer Sower for Top-Dressing Lawns

Has the same adjustment as the horse-power machine and will sow all commercial fertilizers. The hopper is 34 inches long and holds one and one-half bushels. Beside top-dressing lawns, greens, etc., it is a handy machine for all kinds of garden and field work. When two blades are removed, it will sow damp sand. Also is an excellent machine in the winter for covering icy roads and walks with sawdust, sand, etc. Shipping weight, 83 lbs. Price, \$14.



Excelsior Lime and Fertilizer Sower

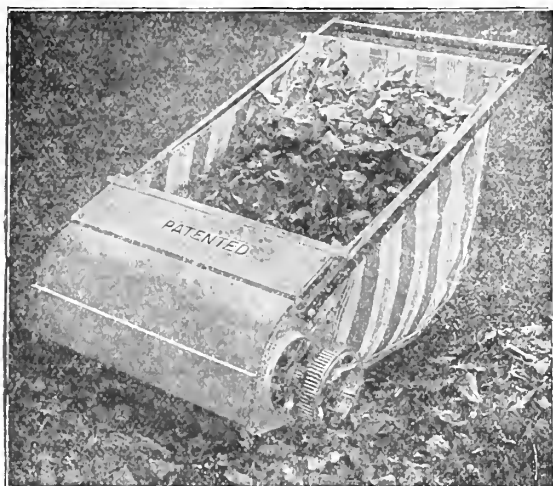
The Excelsior Force Feed Lime and Fertilizer Sower is the most perfect machine on the market for sowing all brands of commercial fertilizers, Nitrate of Soda, Emerald Lawn Dressing, Pulverized Limestone, Sheep-Manure, Bone Meal, Dry Wood-Ashes, etc. Hopper holds 10 bushels. Actual width of sowing is 8 feet. Capacity from 50 to 4,500 lbs. The screen in the hopper and revolving agitator prevents clogging and packing of material on the feeds and insures an even distribution of fertilizers. All feeds can be instantly shut off or opened to any desired amount. Has two 30-inch wheel with 4-inch concave tires. Shipping weight 360 lbs. Price, \$40.



Cahoon's Improved Broadcast Seed Sower

This is the only Broadcast Seed Sower that has come to stay. It is well known as a practical and cheap broadcaster. Wheat, rye, oats, barley, hemp, timothy, millet and Hungarian grass are used in this Seeder. The operator can sow from four to eight acres an hour, walking at an ordinary gait. The seed is scattered from 8 to 20 feet on each side of the operator, according to the kind of seed. The heavy seed, like wheat, is scattered the greatest distance. Packed weight, 8 lbs. Can be sent by parcel post. Price, \$3.75.

Lawn Cleaners, Lawn Sweepers and Lawn Rollers



Pennsylvania Lawn Cleaner and Rake

This machine will remove from the lawn not only the cut grass, but all sorts of litter, leaves, and trash, leaving the grass standing upright and free from foreign matter that prevents the sunlight and dew from getting to the roots.

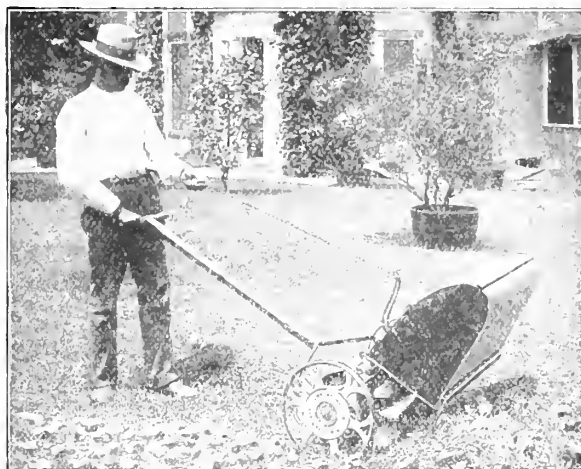
The metal teeth rake up everything on the surface of the lawn and, in combination with the current of air, carry it to the canvas receptacle or basket, which is large and easily emptied when full.

The suction created by the three rapidly revolving rakes cleans the lawn on the same principle as the vacuum cleaner operates on the carpet.

The Pennsylvania Lawn Cleaner and Rake is easy to operate, and with it one man will do more and better work than four men with hand rakes.

Width	Gross weight	Net weight	Price
24 in.	100 lbs.	60 lbs.	\$18 00
36 in.	125 lbs.	80 lbs.	27 00

FOR RUBBISH BURNERS, see page 141



Stumpp & Walter Co.'s Lawn Sweeper

The S. & W. Co.'s Regular Lawn Sweeper in construction is the same as the Special Putting-Green Sweeper, except the alternating tufts of special steel wire are omitted in the Palmetto Brushes. This sweeper is practically an all-year-round machine, for wherever there is a plain surface to be swept, whether sidewalk, porch, or warehouse floors, the S. & W. Co.'s Sweeper will do the work easily, quickly, and thoroughly. It is this thoroughness combined with rapid, easy operation which constitutes its chief merit. The brush reels automatically take up the wear of the brushes, which do not choke up or need to be cleaned.

Width	Net weight	Gross weight	Price
24 in.	70 lbs.	96 lbs.	\$14 00
28 in.	84 lbs.	106 lbs.	15 00
Extras: Wheels, \$1 each, with rubber tires.			
Brush Reel, 24 inch, complete with brushes.			
Brush Reel, 28 inch, complete with brushes.			
Grass Box, 24-inch size.			
Grass Box, 28-inch size.			

Order repairs by both number and name when number appears on parts.

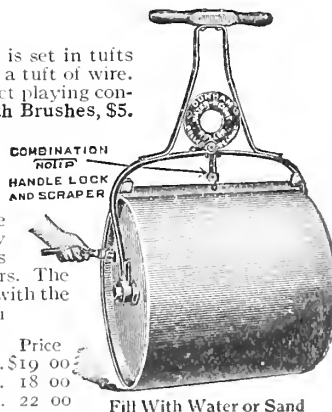
Special Golf Sweepers

The brushes of this machine are made of palmetto, a tough, durable fiber, unaffected by water, which is set in tufts alternating with tufts of special steel wire, and arranged so that a tuft of palmetto follows directly behind a tuft of wire. It is a veritable necessity to golf, country, and cricket clubs desiring to keep their greens and lawns in perfect playing condition. Width 28 in., net weight 84 lbs., gross weight 106 lbs. Price, \$18. Extra Brush Reels, complete with Brushes, \$5.

The Dunham "Water-Weight" Lawn Roller

The Dunham Water-Weight Roller is a most satisfactory Roller. The construction consists of three heavy steel-plates, pressed together and electric-welded, forming one solid steel drum with no leaky joints; handles are always in an upright position, as shown in the illustration, and held in this position with counterbalance weights, which also add speed and ease of operation to the Roller. Axles are of high-carbon steel, perfectly round, and revolve in roller-bearings, the same as used in automobile construction. This feature alone has proved this Roller to operate with 44 per cent less energy or power than is required to operate other Rollers. The proper way to fill this Roller is shown in the illustration. The weight of each Roller empty and filled is given with the diameter and length below.

No.	Diam. in.	Length in.	Sec. tions	Weight empty lbs.	Filled with water lbs.	Price
3WB	14	20	1	60	175	\$11 00
5WB	18	24	1	85	300	13 00
7WB	24	24	1	110	500	17 00

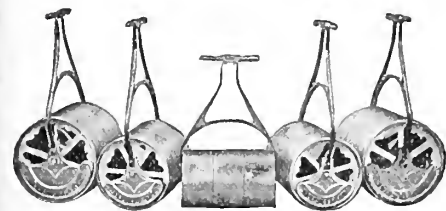


Fill With Water or Sand

Cast-Iron Hand Lawn Rollers

Made in one, two, and three sections. The face of each Roller is made smooth, with outer edges rounded to avoid cutting the lawn or garden. Roller-bearing, outside counterbalancing weights to keep the handles in an upright position. The Rollers of two or more sections are preferable, as they will not injure the grass when turning. The best one-man Rollers are those averaging from 250 lbs. to 500 lbs.

No.	Sec.	Diam. in.	Length in.	Weight lbs.	Price
1	2	15	15	150	\$9 50
2	3	15	22	200	12 50
4	2	20	20	250	15 50
7	2	20	24	300	18 50



Cast-Iron Hand Lawn Rollers

The Stumpp & Walter Co. Ball-Bearing Lawn Mower

ALWAYS READY, EASY-RUNNING, NOISELESS,
SELF-SHARPENING, PERFECT ADJUSTMENTS.
WILL CUT GRASS 6 INCHES HIGH

The Stumpp & Walter Co. Ball-Bearing Lawn Mower is universally a family Mower. Most anybody—man, woman or child—can use it with little exertion. It is a high-grade standard machine, adopting only the best features in its construction. The cutting parts are made of oil-hardened water-tempered crucible tool-steel, and are positively self-sharpening. The knives and blade will hold a durable edge and will not dull as the softer cutting parts of other Mowers do. The lawn is shaved smooth and even and without any corrugations. The simple adjustment sets the machine to shave the lawn to $\frac{1}{2}$ inch or up to $1\frac{1}{2}$ inches as may be desired. See the illustration which is a photograph of actual results. The expense of mowing a lawn is reduced to a minimum with the S. & W. Co. Lawn Mower. The durability of this Mower is unquestionable. It does not have to go to the repair shop each season as do frequently the lower-priced Lawn Mowers.

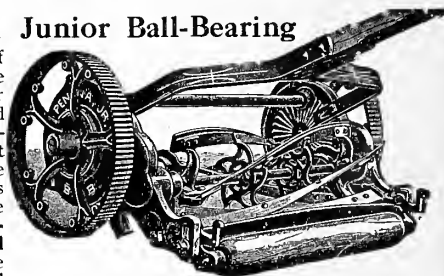
The construction of this Lawn Mower has overcome the bobbing up and down and gouging that is common to some hand Mowers. The axle revolves in extra-large balls placed in hardened tool-steel cones and cups, and is driven with two gears by two 10-inch traction wheels. These wheels are made durable and are not easily broken.

This Lawn Mower is made to give good and long service and with ordinary good care will last from five to ten years. We take the liberty to recommend the S. & W. Co. Ball-Bearing Lawn Mower to be the best all-round Lawn Mower of its type manufactured. We guarantee it to give entire satisfaction. We supply this Lawn Mower in four sizes.

Size	Gross weight	Net weight	Price	Grass Catcher
15-inch cut.....	65 lbs.	40 lbs.	\$15 00	\$2 00
17-inch cut.....	67 lbs.	42 lbs.	17 00	2 15
19-inch cut.....	71 lbs.	45 lbs.	19 00	2 30
21-inch cut.....	76 lbs.	48 lbs.	21 00	2 50

Pennsylvania Junior Ball-Bearing

The perfection of Lawn Mowers. The Pennsylvania Junior has all the good features incorporated in a perfect Lawn Mower. The five revolving blades are driven by a triple set of gears and a 10-inch traction wheel from each side. The revolving blades and the bottom knife are the best crucible



Pennsylvania Junior Ball-Bearing

tool-steel, oil-tempered and water-hardened. The Pennsylvania Junior is capable of cutting grass 6 inches high. Will not jump, as many of the lower-priced machines do.

Size	Gross weight	Net weight	Price	Grass Catcher
15-inch cut.....	71 lbs.	48 lbs.	\$15 00	\$2 00
17-inch cut.....	74 lbs.	51 lbs.	17 00	2 15
19-inch cut.....	77 lbs.	53 lbs.	19 00	2 30
21-inch cut.....	80 lbs.	55 lbs.	21 00	2 50

Pennsylvania Lawn Trimmer Ball-Bearing

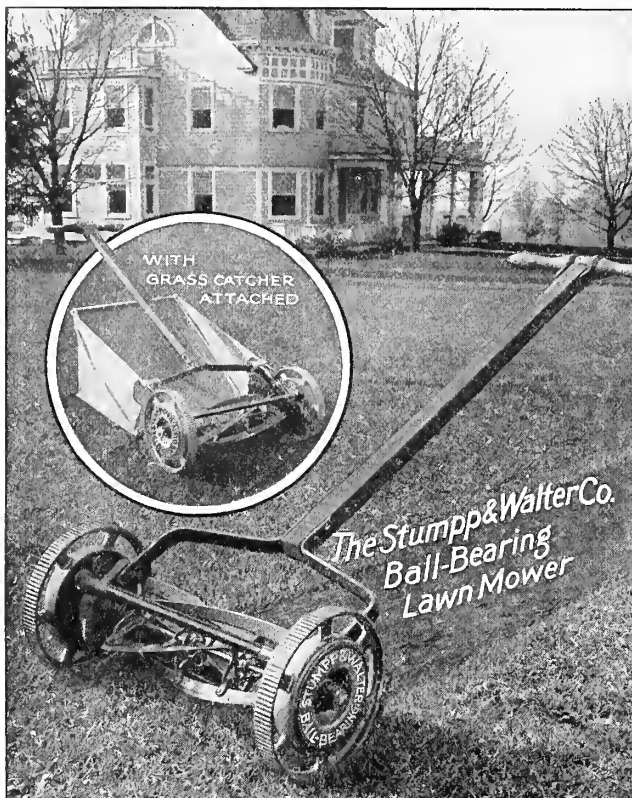
Made to meet the demand for a serviceable tool to take the place of grass shears and other devices for cutting grass left at the edge of lawns, around flower-beds, etc. Will cut to within $\frac{3}{8}$ of an inch of walls, fences, walks, etc. Will mow any border wide enough to run one wheel on. High 8-inch wheel; runs easily; self-sharpening.

Width of cut 6 inches; gross weight 26 lbs.; net weight 20 lbs. Price \$6.

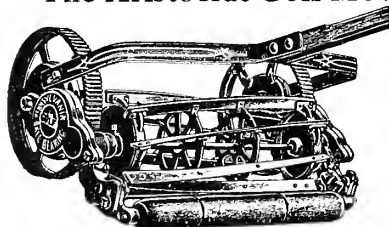
High-Wheel Universal Mower

The best low-priced Mower made with ball-bearings. Four revolving blades, flexible bottom knife, self-sharpening. Made of best materials. A very easy-running and light Mower for ladies and children to operate. For small lawns order 12-inch or 14-inch sizes.

Size	Gross weight	Net weight	Price	Grass Catcher
12-inch cut.....	38 lbs.	28 lbs.	\$6 00	No. 1 \$1 35
14-inch cut.....	41 lbs.	30 lbs.	6 50	No. 1 1 35
16-inch cut.....	43 lbs.	32 lbs.	6 75	No. 2 1 60
18-inch cut.....	45 lbs.	34 lbs.	7 25	No. 2 1 60
20-inch cut.....	47 lbs.	36 lbs.	7 75	No. 2 1 60



The Aristocrat Golf Mower Ball-Bearing



The Aristocrat Golf Ball-Bearing

The Aristocrat is the acme of putting-green Mowers. Extreme tests have proved this machine superior to all other Mowers in keeping the greens in first-class condition. The Aristocrat was specially designed for putting-greens. Consideration was exercised in the construction of this machine to give the longest service, ease of adjustment and operation, and the best possible satisfaction that can be obtained from a Golf Mower. The life of this Mower is long compared with the other styles of Golf Mowers. The seven revolving blades and the bottom knife are the best crucible tool-steel, oil-tempered and water-hardened. A double train of gears drives the revolving



The Aristocrat with Grass Box Attached

ence. The illustration with the Aristocrat complete, and the way it should be operated to obtain the best results.

The Aristocrat is used exclusively and highly recommended by many of the best golf, tennis and cricket clubs.

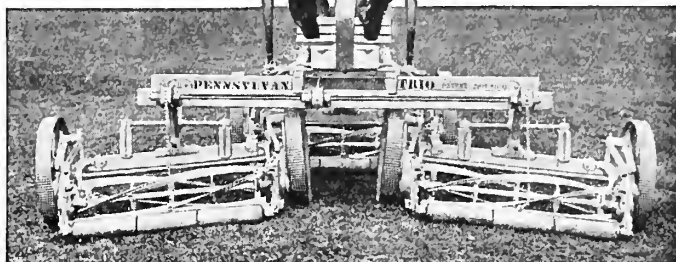
Size	Gross weight	Net weight	Price	Grass Box
17-inch cut.....	102 lbs.	72 lbs.	\$24 00	\$3 00
19-inch cut.....	104 lbs.	76 lbs.	26 00	3 25

The Pennsylvania Trio Horse Lawn Mower

This three-unit horse Lawn Mower is designed to meet the demands that have rapidly increased the last year. The Trio is entirely practical and satisfactory. The very latest and best features are adopted in its construction. The combined cutting width of the Trio is 86 inches. The single mower is in front, which allows an exceedingly short turning radius. This is one of the most convenient features, eliminating the digging up of the turf when attempting to make a short turn. This principle results in a much more flexible machine and easier to handle. The Trio does not jump as soon as the machine is drawn ahead, the cutting cylinders are automatically pressed against the turf. With the automatic-clutch feature it is only necessary to lift the cylinders off the lawn to disengage them from the gears. The cutting cylinders immediately revolve when released and lowered to the lawn. The lifting device is easily worked with one hand and raises the mowers to a convenient height, and they are kept in this position for topping-off grass 4 inches high. For the lack of space we are unable fully to describe the many good features of Pennsylvania Trio.

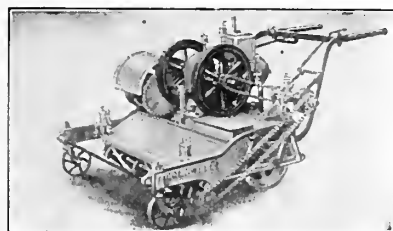
Width of cut	Gross weight	Net weight	Price
86 inches.....	1,050 lbs.....	735 lbs.....	\$300 00
Extra Cutting Units...	270 lbs.....	195 lbs.....	80 00

FOR ILLUSTRATIONS
AND COMPLETE DE-
SCRIPTION SEND TO
STUMPP & WALTER
CO. FOR BOOKLET.



Coldwell's Combination Roller and Motor Lawn Mower

MODELS F, G, AND H



These three Motor Mowers are designed for use on small estates, golf, and tennis grounds, etc., not sufficiently large to warrant the purchase or use of one of the larger and heavier machines. These Power Lawn Mowers are in great demand and will largely take the place of the very heavy motor mowers which in some

localities are used as rollers in the early spring, for the reason that their very heavy weight has a tendency to pack the soil to a point where it discourages the grass to make deep roots.

Simplicity. Can be operated and cared for by very ordinary labor and **handled as easily as a Hand Lawn Mower.**

Capacity. 40-inch swath; speeds up to four miles an hour, and will negotiate 25 per cent grades.

Motor. Not our own manufacture, but selected as the best in our judgment after seasons' trial of many of the leading makes.

Bearings. All bronze.

Transmission. Direct chain drive forward. Planetary system for reverse.

Clutch. Friction, multiple-disc type for propelling and Coldwell's Self-releasing Friction Clutch driving the cutter.

Oiling. All bearings have direct lubrication from either oil or grease cups.

Drive. Chain rather than gear, it being longer lived and easier and quicker to repair.

Drive Rollers. Equipped with differential gears. No brakes necessary, as engine will hold machine back when going down hill.

Operating Handles. Used not only for guiding the machine but for raising and lowering cutter unit over obstacles.

Cutting Mechanism. Coldwell's Patent Demountable Cutter Unit, absolutely independent of the main frame, and is easily and quickly attached or detached.

The knives are the parts of a Lawn Mower most liable to damage, and when this happens with a **Demountable Cutter Unit Machine**, it does not necessitate the laying up of the entire machine while adjustments are being made, as another Cutter Unit, all ready and adjusted for use, can be substituted in less than two minutes. This is an especially desirable feature in a Motor Lawn Mower, as the knives form but a small part of the machine.

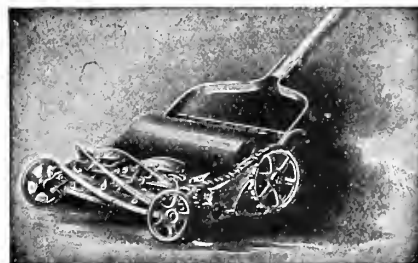
The Cutter Unit is carried between the sides of the main frame on the front ends of the steering handle irons, and can be raised and lowered at will by the operator without disturbing any other part of the machine.

Model	Size cut	Gross weight	Net weight	Price
F.....	40-inch.....	1,740 lbs.....	1,270 lbs.....	\$475 00
G.....	35-inch.....	1,230 lbs.....	1,040 lbs.....	350 00
H.....	30-inch.....	1,130 lbs.....	940 lbs.....	300 00

Coldwell's Chain Roller Mower

This Roller Mower is designed especially to meet the demand for a machine that will more perfectly cut borders, terraces, verges, etc., and still retain all other features required in a Mower for general work with four blades.

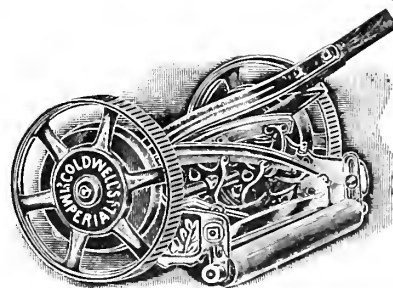
This Mower is also made with gears. The chain roller is preferred, although the prices of both Mowers are the same. When six blades are desired, add \$1 to the price.



Size	Gross weight	Net weight	Price
12-inch.....	65 lbs.....	48 lbs.....	\$12 25
14-inch.....	70 lbs.....	52 lbs.....	13 75
16-inch.....	78 lbs.....	55 lbs.....	15 50
18-inch.....	90 lbs.....	67 lbs.....	17 00
20-inch.....	98 lbs.....	71 lbs.....	18 75

Coldwell's Imperial Lawn Mower

Is one of the best in quality of material used and workmanship. High-10-inch wheel; noiseless and easy-running; four revolving blades; double cutting edge; bottom knife can be reversed when dull; adjustment is perfect.



Size	Gross weight	Net weight	Price
14-inch.....	54 lbs.....	41 lbs.....	\$9 75
16-inch.....	56 lbs.....	43 lbs.....	10 75
18-inch.....	62 lbs.....	46 lbs.....	11 75
20-inch.....	65 lbs.....	48 lbs.....	12 75

Leather Horse Boots, Quality Kind

Easily attached to the horse's feet; prevents marring the lawns. Frequently after rains, or in the spring, the lawns are soft and easily cut up. Use a good leather boot and save the lawn. Quality Kind are made good. Double-thick soles and uppers reinforced; heavy parts put together with copper rivets. Small size, \$12; medium size, \$13; large size, \$14.



Rubber Hose, Menders, Nozzels and Lawn Sprinklers

RUBBER HOSE



Electric. Three-ply, non-kinkable, molded Hose. The strength and durability of this Hose places it with the very best grade of Hose manufactured.

Standard lengths, $\frac{3}{4}$ -inch bore, 25 ft., \$5; 50 ft., \$10.
Standard lengths, $\frac{1}{2}$ -inch bore, 25 ft., \$4.50; 50 ft., \$9.
Other lengths, $\frac{3}{4}$ -inch bore, cut and coupled, 20 cts. per ft.
Other lengths, $\frac{1}{2}$ -inch bore, cut and coupled, 18 cts. per ft.

Golf-Course. Four-ply heavy duck Hose, with exceptionally strong black tube and white cover. Especially adapted for use on golf-courses, tennis-courts, and cricket-creases. This is guaranteed for any pressure and hard work as usually found on golf-courses and private estates. Will stand up and give satisfaction under conditions where ordinary garden Hose has failed.

Standard lengths, $\frac{3}{4}$ -inch bore, 25 ft., \$5; 50 ft., \$10.
Standard lengths, 1-inch bore, 25 ft., \$6.50; 50 ft., \$13.



S. & W. Co.'s Special Brand (Wayahead). Surpasses all the cheaper grades of Hose. Its durability is not excelled by much of the higher-priced Hose. It is three-ply, seamless, and non-kinkable. Standard lengths, $\frac{3}{4}$ -inch bore, 25 ft., \$4.25; 50 ft., \$8.50.

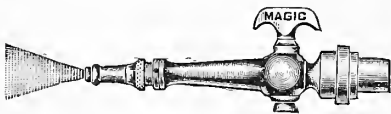
S. & W. Co.'s Wearlong Brand. A good medium-grade Hose. Made of heavy duck. Will stand ordinary pressure and gives good satisfaction in garden and greenhouse work.

Standard lengths, $\frac{3}{4}$ -inch bore, 25 ft., \$3.25; 50 ft., \$6.50.
Standard lengths, $\frac{1}{2}$ -inch bore, 25 ft., \$3; 50 ft., \$6.

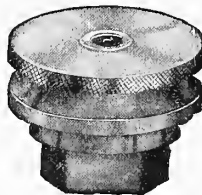
HOSE NOZZLES

Stott's. A Nozzle that has become a favorite among rose-growers, etc., for exterminating red spider. Splendid Nozzle for reaching under the foliage; gives a very fine, misty spray. Single, \$1.25; double, \$1.75.

Mistry Jr. Can be used for spraying white-wash. \$1.10 each.



Magic. Brass Hose Nozzle, $\frac{3}{4}$ -inch. Has a shut-off, a stream, and a rose spray. Without rose, 75 cts.; with rose, \$1.



Mistry Jr. Nozzle

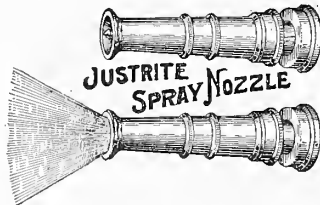
Shubert. Made for general all-round use. Solid brass. \$2.50.

Justrite Spray.

A very popular adjustable Nozzle. It gives a copious spray or a well-defined full stream. Has a positive shut-off, by turning the barrel of the nozzle, 50c.



Shubert



JUSTRITE
SPRAY NOZZLE

Bordeaux Spray Nozzle. A good nozzle for white-wash and all heavy spray materials. \$1.

HOSE COUPLINGS. Lightning, $\frac{3}{4}$ -inch, 35 cts. Regular, $\frac{1}{2}$ -inch, 23 cts.; $\frac{3}{4}$ -inch, 25 cts.

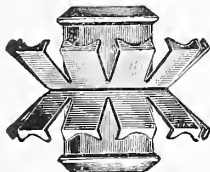
HOSE MENDERS

Cooper's Brass. $\frac{1}{2}$ - and $\frac{3}{4}$ -inch, 8c. each, 85c. per doz.; 1-in., 10c. each, \$1.10 per doz.

Perfect Clincher. $\frac{1}{2}$ - or $\frac{3}{4}$ -inch, 12 cts. each, \$1.25 per doz.

Jones' Iron. $\frac{1}{2}$ - or $\frac{3}{4}$ -inch, 5 cts. each, 50 cts. per doz.

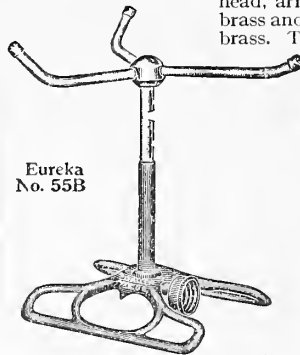
Hudson. $\frac{1}{2}$ - or $\frac{3}{4}$ -inch; state size. Box of 6 tubes and 20 bands, with pliers, 75 cts.



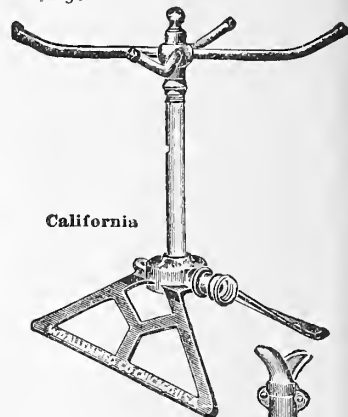
Perfect Clincher Mender

LAWN SPRINKLERS

Eureka No. 55B Lawn Sprinkler. The Eureka Sprinkler will revolve under extremely low pressure, and is a first-rate article. The head, arms, and upper stem are nickel-plated brass and all bearing parts of the Eureka are of brass. The base is japanned black and has a loose swivel. Height 10 inches. \$1.50.



Eureka
No. 55B



California

California Lawn Sprinkler.

Is made with three and four arms. Arms and head are polished brass. Attached to a sled base, 10 inches square. Can readily be drawn about the lawn and will not upset.

With 4 arms, \$1.75. With 3 arms, \$1.50.

Maid-of-the-Mist Sprinkler. An effective device for sprinkling lawns, gardens, or flower-beds. The water flows with unimpeded force, and is divided and deflected by the two lips of the swivel piece, which it causes to revolve rapidly, scattering the water in fine drops and evenly over a circular area of 25 feet. It works more satisfactorily with a very low pressure of water than any Sprinkler we know of. With spur, 60 cts., mailed 10 cts. extra. With sled (recommended) \$1.

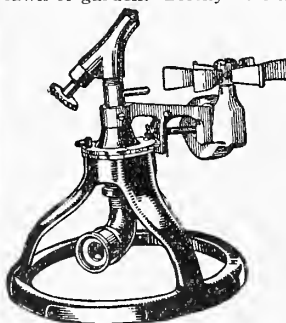


Maid-
of-
the-
Mist

The Dayton Rotary and Oscillating Sprinkler

The Dayton is the most practical, durable, and efficient Sprinkler devised for watering lawns or gardens and is now being used by thousands of lovers of a beautiful lawn or garden. Briefly here are the points of interest:

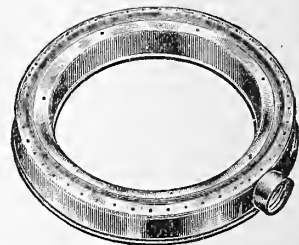
The lawn sprinkler attaches to your hose. The garden type attaches to a pipe riser as shown in cut. It sprinkles in a circle. It sprinkles in a half-circle. It sprinkles from a 3-foot radius to a 40-foot radius. It sprinkles every inch of the ground. It is better for your lawn or plants than sprinkling with a hose. It operates on any pressure from 15 pounds up. The nozzle can be adjusted to any kind of a stream. It pays for itself in water saved and convenience. It is made of the best brass, aluminum, and German silver. \$6



Ring Lawn Sprinkler. The S. & W. Co. Ring Sprinkler is not to be compared with the Cheaper Ring Sprinklers. Is made of brass, firmly constructed and guaranteed to stand the water-pressure of any municipal water-works in the United States. 75 cts.

Florists' Rose Sprinkler. Used in greenhouses and hotbeds; produces a copious spray, but very gentle, and does not wash or pack the soil. Base is made of cast-brass; face of heavy plate-brass, perforated; $\frac{3}{4}$ -in. thread. 3-inch face, 85 cts.; 4-in. face, \$1.

Boston Rose Sprinkler. For the same purpose as the Florists' Rose Sprinkler. Made of light sheet-copper. 60 cts.



Sykes Hose Holder

A simple and inexpensive device for holding the hose. With this the nozzle can be placed at almost any angle. 25 cts.

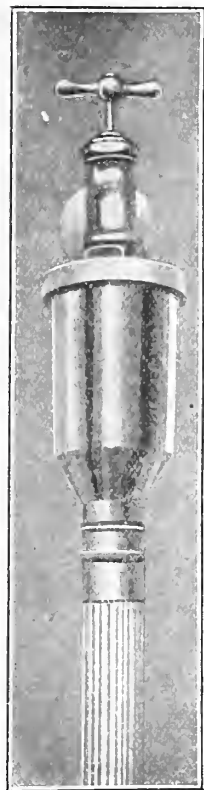
The Kirke Automatic Lawn Feeder

The Kirke Automatic Feeder, a recent invention, has solved the problem of reducing to a minimum the expense of fertilizing the lawn and garden. The dispenser which holds the cartridge is attached to either end of hose or in the center, when two lengths are used. The end attached to faucet, as shown in illustration, is preferred. The Kirke System is practical, efficient, and economical. Cartridges of high-grade concentrated materials are furnished for fertilizing lawns and gardens, destroying insects, angleworms, and fly maggots. One Fertilizer Cartridge is equal to 50 pounds of stable manure and eliminates the disadvantages commonly found with same, such as weed seeds, bad odor, the expense of spreading it on and raking it up. The cartridges dissolve with an absolutely even distribution, as soon as they faucet is opened. The effect is immediate and definite. The dispensers are brass and heavily nickel-plated. Will last a lifetime.



PRICE-LIST FOR 1917

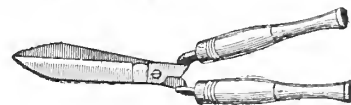
	EACH	HALF DOZEN	DOZEN	MAIL WEIGHT	
				HALF DOZ.	DOZEN
Kirke Feeder (Cartridge Container), mail weight 1 1/4 lbs.	\$2 00				
Kirke Fertilizer Cartridges	20	\$1 10	\$2 00	3 1/2 lbs.	7 lbs.
Kirke "Tobacco" Nicotine Insecticide Cartridges	30	1 00	3 00	3 lbs.	6 lbs.
Kirke Arsenate of Lead Cartridges	38	2 15	4 00	3 3/4 lbs.	7 1/2 lbs.
Kirke Bordeaux Cartridges (Fungicide)	25	1 35	2 50	2 1/2 lbs.	5 lbs.
Kirke Angleworm Destroyer Cartridges	1 00	6 00	12 00	3 1/2 lbs.	7 lbs.
Kirke Fly Maggots Destroyer Cartridges (Disinfectant-Germicide)	30	1 60	3 00	2 1/2 lbs.	5 lbs.
Kirke Sulphur Compound Cartridges	30	1 60	3 00	3 1/4 lbs.	6 1/2 lbs.
Kirke Salt Cartridges	10	55	1 00	3 lbs.	6 lbs.
KIRKE SPRINKLING CAN PLANT FOOD					
		Box, 12 Tab.			
		Carton, 72 Tab.			
	30	1 60		4 lbs.	8 lbs.
			3 00		



Hedge Shears

Solid steel blade, crucible tool-steel, tempered to hold an edge. Give good service. Shears with notch are the best for cutting heavy stems of hedge plants.

Plain	Price	With Notch	Price	P. P.
8-in. blade	\$1 50	8-in. blade	\$1 75	4 lbs.
9-in. blade	2 00	9-in. blade	2 25	4 lbs.
10-in. blade	2 50	10-in. blade	2 75	5 lbs.



Hedge Shears

S. & W. Co.'s Grass Shears

A two-piece Shear. A very simple but practical locking device holds the Shear together; easily separated when blades require sharpening. Made of the best crucible tool-steel; polish finish. One size only, 6 1/2-in. blade, \$1.25.

Western Grass Shear. Made of good-quality tool-steel. A one-piece Shear. Plain finish, 6-in. blade, \$1. A leather shield is furnished with each Shear.



Grass Shears

Grass Edging or Border Shears

Designed to trim the overhanging grass on borders, around flower-beds and walks. 9-in. blades of high-grade tool-steel; polished handles and blades. Without wheel, \$2.50; with wheel, \$2.75.

Lawn Shears

Designed to cut grass under hedges, fences, grape arbors, and flower-beds or shrubs. 9-inch blades of high-grade tool-steel, polished handles, and blades. Without wheel, \$2.50; with wheel, \$3. Notice: When shipping the above Shears, unless stated on orders, we send Shears with wheel.

Pruning Shears

Kunde. We regret being unable to offer any of this make of Shear for this year. Owing to the war none can be imported.

Wiss. Made in America. Crucible tool-steel; blades are detachable; tempered to hold an edge; will not break. Made in two sizes. 9-in. \$2; 10-in. \$2.50. Extra springs, 20 cts. each; extra blades, 50 cts. each.

S. & W. Co. Solid Steel. Crucible tool-steel. Blade and handle are one piece of polished steel; a ratchet nut keeps the Shear properly tightened; will not break; excellent finish. Made in three sizes. 8-in. \$1.50, 9-in. \$1.75, 10-in. \$2.

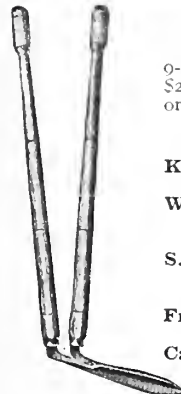
French. Made of good-quality tool-steel; flat roller spring; works easy and cuts good; detachable blades; plain finish. Made in three sizes. 7-in. \$1.50, 8-in. \$1.75, 9-in. \$2.

California. Crucible tool-steel blade; malleable handle; Japan finish. A very good Shear for grape-vines and shrubbery. 60 cts.

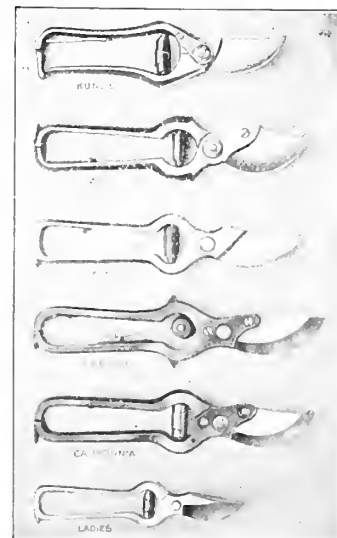
Ladies' Nickel-plated. Light, practical, handy to use on roses and shrubbery. 6-in. \$1.15.



Border Shears



Lawn Shears



Miscellaneous Garden Supplies

- Aprons, Gardeners'.** English made. Each
 Fine shalloon, 39-in., with bib and pocket.....\$2 50
 Fine shalloon, 36-in., with bib and pocket..... 2 00
 Heavy serge, 39-in., with bib and pocket..... 2 50
 Heavy serge, 36-in., with bib and pocket..... 2 00
- Bamboo Canes.** See Plant Stakes, page 52.
- Broom, Bamboo.** Excellent for sweeping lawns, putting-greens, and walks. Made of bamboo. 50 cts. each, \$5 per doz.
- Carnation Supports.** Model Extension, 2-ring, 60 cts. per doz., \$4.50 per 100; 3-ring, 75 cts. per doz., \$5 per 100.
- Carnation Bands, Rubber.** To prevent splitting of calyx. 50 cts. per oz.
- Clips, Eureka.** For fastening rose and chrysanthemum wire stakes. \$1 per box of 500, \$1.50 per box of 1,000.
- Corn Knife.** For cutting cornstalks or heavy grass. 45 cts. each, \$5 per doz.
- Fumigators.** See page 146.
- Gloves.** Made substantially of horse-hide; heat- and waterproof; made with gauntlets. Good Gloves for pruning and general farm-work.
 No. 131. All leather. \$2.25 per pair.
 No. 147. All leather and coarser than No. 131 Gloves. \$2 per pair.
- Gardeners' Gloves.** Made of heavy goat-skin. \$1.50 per pair.

Glazing Materials

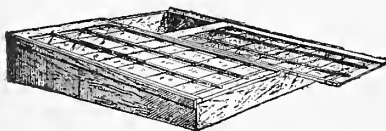
- Mastica, for Glazing Greenhouses.** The use of Mastica avoids the necessity of repeatedly re-glazing the houses, saving much time and expense. With Mastica one can bed in or use outside with a machine. \$1.75 per gal., \$8 for 5 gals.
- Mastica Machine.** \$1.50 each.
- Glazing Putty, Twemlow's Old English.** Will not crack or peel. One gallon glazes 300 lineal feet. Qt. 55 cts., gal. \$1.75.
- Putty Bulb, Scollay.** A useful tool similar to the well-known Scollay Sprinkler, with a tube instead of spray for applying liquid putty in glazing greenhouses. \$1.
- Glazing Points, Van Reyper's.** No rights or lefts. No. 2, large, for single- and double-thick glass for greenhouses and skylights. Box of 1,000, 65 cts.; 5,000 for \$3.
 Pincers or pliers for same, 50 cts.
- Siebert's Improved Glazing Points.** Easy to drive and made so they will not wedge or crack glass in driving. The head gives a good surface and makes it very easy to drive with a chisel, and the point is very easily pulled out when repairing greenhouse roof.
 Two sizes, $\frac{3}{8}$ - and $\frac{1}{2}$ -in. long, put up in 1-pound packages. Over 1,400 points in 1-lb. pkg. of $\frac{3}{8}$; over 1,100 points in 1-lb. pkg. of $\frac{1}{2}$. 75 cts. per lb., 5 lbs. \$3.50.
- Red Devil Glass Cutter.** 10 cts., 15 cts., and 25 cts.
- Putty Knife.** No. 100. A very good tool. 25 cts. each.
- Grafting Wax.** $\frac{1}{4}$ lb. 10 cts., $\frac{1}{2}$ lb. 15 cts., 1b. 25 cts.

Knives, Turf-edging, Budding and Pruning

- Solid Welded Steel Edging.** Socket handle; made of the very best steel; imported English. 8-inch, \$1.35; 9-inch, \$1.50. Each
- Half-Moon.** Solid steel, with a polished handle.....\$0 75
 Without handle..... 50
- Pruning—**
 No. 7705, horn handle, 1 blade..... I 25
 No. 11270, ebony handle, 1 blade..... 75
 No. 363 $\frac{1}{2}$, horn handle, 2 blades..... I 00
 No. 1931, ebony handle, 1 blade..... I 00
 No. 7957, horn handle, 2 blades..... I 50
- Budding—**
 No. 7956, ivory handle, 1 blade..... I 75
 No. 690, bone handle, 1 blade..... I 50
 No. 916, bone handle, 1 blade..... I 25
 No. 40062, bone handle, 2 blades..... I 25
 No. 37012, ebony handle, 1 blade..... 75

Hotbed Sash and Frames

Stumpp & Walter Co.'s Standard Frames are made of selected Gulf cypress, free from knots and sap. Frames are dressed and finished with two coats of gray paint. The four corners are securely held with angle irons and bolts. Easily taken apart when necessary to store or ship them. The rails between the sash are rabbeted and grooved for drip, and dovetailed into the sides. The back depth of frame is 16 inches, front depth 8 inches. This provides the necessary pitch



HOTBED SASH AND FRAMES, continued

to carry away rain and snow. Frames are made for 2, 3, 4, and 5 sash. When frames for only one sash are desired, we recommend the frames used for half-sash.

- No. 2. For two 3x6-ft. sash.....\$9 00
 No. 3. For three 3x6-ft. sash..... 11 00
 No. 4. For four 3x6-ft. sash..... 13 00
 No. 5. For five 3x6-ft. sash..... 15 00

Single Light Sash. Stumpp & Walter Co.'s Single Light are standard size, 3x6 feet. Made of selected cypress, $1\frac{1}{8}$ inch thick, free from knots and sap. Mortised and leaded joints. Three rows of 10x12-inch double-thick glass, iron cross-bar across the center. Made extra strong and durable. Finished with two coats best white lead. \$3.50 each, \$40 per doz.

Double Light Sash. Stumpp & Walter Co.'s Double Light or Double-Glazed Sash are made with two layers of glass, providing an air chamber or insulator, which keeps the warmth in and the frost out. With the Double Light Sash it is not necessary to use mats or covering in severe cold weather, thus eliminating the expense of mats and the regularity of covering and uncovering the sash. In locations where snow is frequent or stays long it does not interfere with the Double Light Sash, providing the snow is cleaned off. The plants receive the benefit of the sunlight and grow uninterrupted. The sash are standard size, 3x6 feet, $1\frac{1}{8}$ inch thick. Made of clean Gulf cypress, free from knots and sap. Mortised and leaded joints. Three rows of 10x12-inch double-thick glass. Strengthened with a $\frac{3}{4}$ -inch iron bar across the center and finished with two coats of best white lead.
 \$5 each, \$55 per doz.

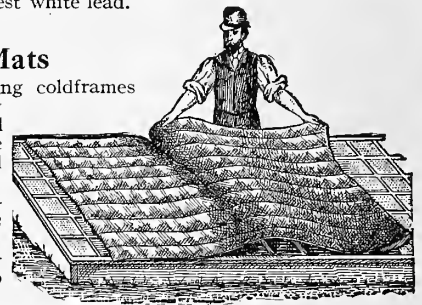
Hotbed Mats

Burlap, for protecting coldframes and hotbeds. Warmly lined with waste wool and cotton, which are quilted in to hold position.

No. 1. 40x76 in. Burlap on both sides, \$2 each, \$21 per doz.

No. 1. 76x76 in. Burlap on both sides, \$2.50 each, \$27 per doz.

Owing to the present condition we are unable to supply waterproof duck mats.



Simplex Waterproof Plant Labels

The writing is protected by the transparent cover and will last indefinitely if done with lead pencil.

- | | Doz. | 100 |
|---------------------------------|--------|--------|
| No. 1. 3x $\frac{1}{2}$ in..... | \$0 25 | \$2 00 |
| No. 2. 4x $\frac{3}{4}$ in..... | 50 | 4 00 |
| No. 3. 5x1 in..... | 75 | 6 00 |

S. & W. Co.'s Permanent Label Holder

This Label Holder is finished with an index card covered with mica, making it absolutely waterproof; finished in black. The best of all Label Holders. Size 8 inches. 15 cts. each, \$1.75 per doz., \$12.50 per 100.

Pot or Garden Labels

- | Wooden— | Plain | | | Painted | | |
|----------------------------|--------|--------|--------|---------|--------|--------|
| | 100 | 500 | 1,000 | 100 | 500 | 1,000 |
| 4-inch..... | \$0 15 | \$0 60 | \$0 90 | \$0 20 | \$0 75 | \$1 00 |
| 4 $\frac{1}{2}$ -inch..... | 15 | 65 | 1 10 | 25 | 90 | 1 30 |
| 5-inch..... | 20 | 75 | 1 20 | 25 | 1 00 | 1 50 |
| 6-inch..... | 25 | 90 | 1 50 | 30 | 1 20 | 1 75 |
| 8-inch..... | 60 | 2 75 | 4 50 | 70 | 3 25 | 5 50 |
| 10-inch..... | 80 | 3 75 | 6 00 | 90 | 4 25 | 7 00 |
| 12-inch..... | 90 | 4 25 | 7 00 | 1 00 | 4 75 | 8 00 |

Copper-wired—
 3 $\frac{1}{2}$ -inch..... 30 I 25 2 00 35 I 50 2 50

Zinc Garden. These are unsurpassed, being neat, durable, and indelible. The ink marks a jet-black, which remains distinct. Use a clean quill or pointed stick.

- | No. | Doz. | 100 | No. | Doz. | 100 |
|---|--------|--------|--|--------|--------|
| 1. 4 $\frac{3}{4}$ x3 $\frac{1}{2}$ | \$0 50 | \$2 75 | 6. 2 $\frac{1}{4}$ x2..... | \$0 20 | \$1 25 |
| 2. 4x2 $\frac{3}{4}$ | 30 | 1 75 | 7. 2 $\frac{3}{4}$ x $\frac{3}{8}$ | 20 | 1 00 |
| 3. 4x3..... | 35 | 2 00 | 13. 2 $\frac{3}{4}$ x1 $\frac{1}{4}$ | 25 | 1 25 |
| 4. 5x1..... | 25 | 1 50 | 14. 1 $\frac{1}{2}$ x1 $\frac{1}{4}$ | 20 | 1 00 |
| 5. 3 $\frac{1}{2}$ x2 $\frac{1}{2}$ | 30 | 1 90 | 15. 4 $\frac{1}{4}$ x4 $\frac{3}{4}$ | 25 | 1 25 |

Miscellaneous Garden Supplies

Label Pencils. Permanent writing on wooden labels. 5 cts. each, 50 cts. per doz. X-L-All Indelible, 10 cts. each, \$1 per doz.

Label, Indelible Ink. For zinc labels. 25 cts. per bottle.

Nails, Vine or Wall. Made with soft, pliable, lead clip for fastening vines to walls, houses, trellises, etc. Will give before cutting vines as they grow. 1 1/4-in., \$1.25 per 100; 1 1/2-in., \$1.50 per 100; 2-in., \$1.75 per 100.

Netting. Bird netting to protect all small fruits and vegetables. A good quality of cotton netting, 1-inch mesh, only in 20- and 30-ft. widths and of any reasonable length. 95 cts. per 100 square feet.

Paper—

Wax. 24x36. Ream...\$4 50

18x24. Ream... 4 00

Tissue. 24x36. Ream...2 00

Manila. 24x36. Ream...\$3 50

Wrapping. 40x48...Lb... 15

Wrapping. In rolls. Widths 24 in., 30 in., 36 in., 48 in. Weight approximately 50 lbs. Kraft or Manila, lb. 15 cts.

Plant Sprinkler, Scollay. Made of best rubber. Straight neck, 95 cts.; angle-neck, \$1.

Post-Hole Diggers, Iwan's Split Handle. \$1.15

Perfection, \$1.25.

Gibbs' Lock Lever. \$1.50.

Post-Hole Auger. 6- and 7-in., \$1; 8- and 9-in., \$1.25.

Iwan Well Digger. 6-in., \$1.85; 8-in., \$2.15; 9-in., \$2.50.

Raffia, Natural. For tying plants. Lb. 25 cts., 5 lbs. \$1.10.

Colored. All colors. For basket-making. Lb. \$1.50.

Scythe Stones, Genuine English. Round, tapering. 50 cts. each.

Genuine Carborundum. No. 58. 30 cts. each.

Red-End. 10 cts. each, 90 cts. per doz.

Scythe Rifles, Emery-coated. 15 cts. each, \$1.50 per doz.

Scissors, Grape-thinning, \$1.25; **Flower-gathering,** \$1.75.

Screens. Handy for ashes, coal, sands, gravel, etc. Extra-heavy wire; spruce frames. Small size, 25x62 inches, \$7; large size, 28x66 inches, \$8. State whether 1/4-, 1/2-, 3/4-, or 1-inch mesh is desired.

Silkalene. See Twines.

Shears. See page 139.

Plant Stakes and Supports

Plant, Tapering, Green—

	Doz.	100		Doz.	100
1 1/2 feet.....	\$0 25	\$1 50	3 feet.....	\$0 55	\$3 70
2 feet.....	35	2 00	3 1/2 feet.....	65	4 60
2 1/2 feet.....	45	2 90	4 feet.....	75	5 60
			5 feet.....	90	6 50

Carnation Supports. See page 51.

Chinese Cane. These are genuine Chinese canes, very strong and

	100	1,000		100	1,000
2 feet, heavy....	\$1 00	\$7 50	7 feet, heavy....	\$3 50	\$30 00
4 feet, heavy....	2 00	17 50	8 feet, heavy....	4 50	40 00
5 feet, heavy....	2 50	22 00	10 feet, heavy....	5 00	45 00
6 feet, heavy....	3 00	25 00			

Japanese Cane. For staking plants and trees.

	100	1,000		100	1,000
6 feet.....	\$1 25	\$11 00	14 feet.....	\$10 00	\$90 00
8 feet.....	2 00	18 00	16 feet.....	15 00	125 00
10 feet.....	4 00	35 00	18 feet.....	20 00	175 00
12 feet.....	7 00	60 00	20 feet.....	25 00	225 00

Dahlia Poles—

	Doz.	100		Doz.	100
3 feet.....	\$0 85	\$6 50	4 feet.....	\$1 10	\$8 50
3 1/2 feet.....	1 00	7 50	5 feet.....	1 50	11 00
			6 feet.....	1 60	12 00

Galvanized Wire—

	100	1,000		100	1,000
3 feet.....	\$2 00	\$17 25	4 1/2 feet.....	\$3 00	\$26 00
3 1/2 feet.....	2 25	20 25	5 feet.....	3 25	30 00
4 feet.....	2 50	23 25	6 feet.....	3 75	35 00

Tomato Supports, Wire. 32 inches high, 14 inches in diameter, made of heavy steel wire. 25 cts. each, \$2.75 per doz., \$20 per 100.

Perfection Patent Wood. 36 inches high and 16 inches wide. Can be taken apart and stored. 25 cts. each, \$2.75 per doz.

Twines

S. & W. Co.'s Smilax Thread. This Thread is very strong, green in color and warranted not to fade. Best Thread on the market. 20 cts. per spool, \$1.25 per 8 spools, \$3 per box of 24 spools.

Silkalene. Very largely used for tying. Three sizes, F, FF, and FFF. 25 cts. per spool, \$1.75 per box of 8 spools.

Bouquet Twine. White. 6 balls to 1 lb., 40 cts.; 5-lb. truss, \$1.75.

Sea Island Cotton. Green. Ball, 15 cts.; box of 8 balls, \$1.

Twine, Soft. For tying vines, etc.; very strong. 2- and 3-ply. Ball 10 cts., 3 balls 25 cts., 12 balls 90 cts.

Tarred Yarn. Excellent, low-priced material for raspberries, shrubs, etc. Ball (2 lbs.) 45 cts., 5 balls \$2.

Wire, Bouquet, Florists' Annealed. Nos. 22, 23, and 24. In coils of 12 lbs., \$2 per coil.

Florists' Bright. Cut in lengths. In boxes of 12 lbs. (one stone). 12 in. and 18 in. long. No. 22, \$1.75; No. 24, \$2.

Watering Pots

Heavy galvanized iron, reinforced; made good and substantial. Each pot has a long spout, with one fine and one coarse rose.

Round Pattern.

6-quart.....\$2 00

8-quart..... 2 25

10-quart..... 2 50

12-quart..... 2 75

French Oval Pattern.

6-quart.....\$2 25

8-quart..... 2 50

10-quart..... 3 00

12-quart..... 3 50

Haw's Pattern—

Ladies', 2-quart...\$1 50

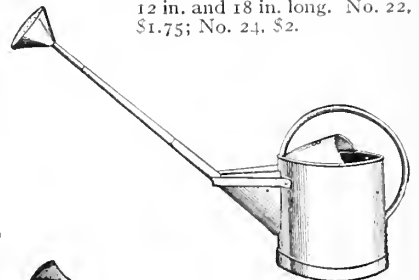
No. 1, 3-quart... 2 00

No. 2, 4-quart... 3 00

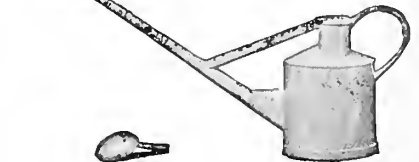
No. 3, 6-quart... 3 50

No. 4, 8-quart... 4 00

No. 5, 10-quart... 4 50



French Oval



Haw's

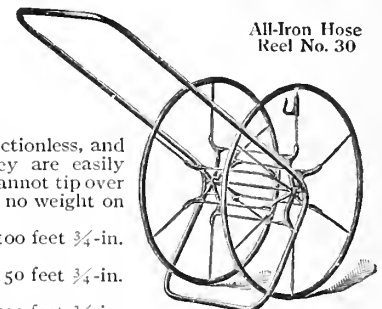
All-Iron Hose Reel

The All-Iron Hose Reels are constructed entirely of iron, and are indestructible. They are light in weight, frictionless, and the wheels being high, they are easily manipulated. These Reels cannot tip over when unreeling and there is no weight on the handle.

No. 10, 21-in. wheel, holds 100 feet 3/4-in. hose, \$3.50 each.

No. 20, 24-in. wheel, holds 150 feet 3/4-in. hose, \$4 each.

No. 30, 30-in. wheel, holds 500 feet 3/4-in. hose, \$6.50 each.



All-Iron Hose Reel No. 30

Burners for Leaves, Paper, and Rubbish

The best Receptacle used for burning leaves, papers, and all kinds of rubbish. This handy Burner is a safeguard against many fires that have their origin in the burning of rubbish in the open. The Burner is extra strong, manufactured of heavy galvanized steel wire, reinforced with iron supports. Made to give life-long satisfaction. We supply this Burner in three sizes.

No.	Diam.	Height	Weight	Each
2	15 in.	24 in.	16 lbs.	\$3 00
2 1/2	18 in.	30 in.	22 lbs.	4 00
3	20 in.	35 in.	33 lbs.	5 00



If you cannot locate any tools or implements you desire, refer to Index, page 148. Our Implement and Poultry Catalogue free on request.

Pruning Tools and Orchard Supplies

Compound-Lever Pruner

Working parts, being made from forgings, are very strong, without being unnecessarily heavy, and the strength, durability, easy cutting qualities of this tool appeal to all who have occasion to use a strong and powerful Pruner. 10 ft., \$3.25; 12 ft., \$3.35; 14 ft., \$3.45; 16 ft., \$3.60.

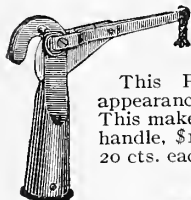


Compound-Lever Pruner

6-ft.....\$0 90 12-ft.....\$1 20
8-ft.....1 00 14-ft.....1 35
10-ft.....1 10 Extra Knives.. 20

Waters Tree Pruner

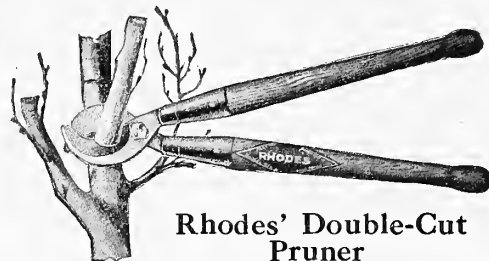
This Pruner has been before the public for over twenty-five years. It has numerous well-known advantages, and if a tool for ordinary pruning is required, the Waters will give entire satisfaction.



Telegraph Pole Pruner

Telegraph Pole Pruner

This Pruner is similar in appearance but of heavier construction than the Waters. This makes it very strong and durable. Plain, \$1.25; with handle, \$1.50. Extra knives, 20 cts. each; extra springs, 20 cts. each.



Rhodes' Double-Cut Pruner

A good and powerful Pruner. Cuts from both sides of the limb, and does not bruise the bark. Long ferrules; handles do not pull out; blades are of the best forged steel. 30-inch, \$2.75; 36-inch, \$3.

PRUNING SAWS



Paragon Pruning Saw

with the draw cutting and thrust cutting edges. Will cut large limbs better than the lighter Saws. 18-inch, \$1; 20-inch, \$1.25.

No. 4 Pruning Saw. Without this Saw no pruning outfit is complete. The tapering blade permits of its use in close places. Used for other purposes. A very useful Saw. 20-inch, \$1.25.



No. 4 Pruning Saw

Two-Man Crosseut Saw. Has Tuttle (Lightning) teeth; cuts easily and rapidly; thin back, will not bind. 5-ft., \$3.25; 5½-ft., \$3.50; 6 ft., \$3.75.

Buck Saw. Quality kind. \$1.25.

Saw-Buck. Quality kind. 75 cts.



Double-Edge Pruning Saw

Double-Edge Pruning Saw. Has fine teeth on one edge and "Lightning" teeth on the other. 18-in., 80 cts.; 20-in., 90 cts.; 22-in., \$1.

PRUNING SAWS, continued

One-Man Crosseut Saw. Can be used also as a Two-man Saw. Has "Lightning" teeth; cuts easily and rapidly.

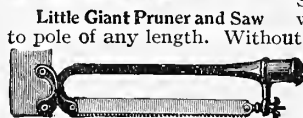
3½-ft.....\$2 50 4½-ft.....\$3 00
4-ft.....2 75 5-ft.....3 25

Orchard Pruning Hook and Saw. Better adapted for pruning or sawing smaller branches than the Little Giant. Without pole, \$1.75.



Little Giant Pruner and Saw Combined.

The knife operates with a cord; a spring throws the knife back. Saw can be removed when desired; attaches to pole of any length. Without pole, \$1.85.



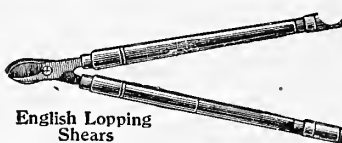
Combined Pruning Saw and Chisel

chisel cuts off small branches. The saw is for larger limbs. Without pole, \$1.40.



Single-Edge Pruning Saw

Single-Edge Pruning Saw. Best spring-steel. 18 in., 75 cts.; 20 in., 85 cts.; 22 in., 95 cts.

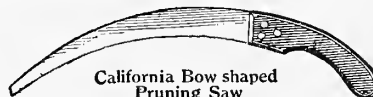


English Lopping Shears

English Lopping Shears. The Shears are well known, and do good service.

No. 2. 24-in. \$2 50
No. 3. 28-in. 2 75
No. 4. 32-in. 3 00

Rhodes' Pole Pruning Saw. Attached to a light, 10-foot pole. Is adjustable to any angle. The Saw is a Paragon blade, made of the best spring-steel; has a draw and thrust cutting edge; saves a lot of climbing and risk of falling. \$3.



California Bow shaped Pruning Saw

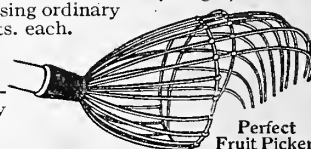
California Bow-shaped Pruning Saw. Excellent to use wherever two

limbs are close together. Can be used in the forks without bruising the bark of other limbs. 12-in., 70 cts.; 14-in., 80c.

Swivel Pruning Saw. Very handy to use where the limbs are close together. The blade is adjustable to cut from any angle; it saves the trouble so often found when using ordinary Saws. \$1.50. Extra blades, 50 cts. each.

Perfect Fruit-Picker

Made of steel wire, heavily galvanized; can be attached to any pole. 40 cts. each.



Perfect Fruit-Picker

Asbestos Torch

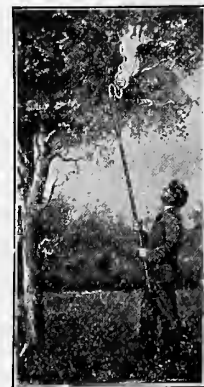
Attach the Torch to the end of a pole; saturate with kerosene oil, light and hold under the caterpillars' nests, and pass quickly along the branches and around the trunk of the tree. The heat instantly destroys the insects and will in no way injure the tree. Without pole, 40 cts.



Challenge Step-Ladder

Strongest and best Ladder manufactured. Made of ash; fine finish. Each step is braced and bolted. Only safe ladder to use 10 feet or over.

Each
5-ft.....\$2 75
6-ft.....3 25
7-ft.....3 75
8-ft.....4 25
10-ft.....5 50
12-ft.....8 75
14-ft.....11 00



Asbestos Torch

Sprayers for Applying Insecticides and Fungicides

The Binks General-Purpose Sprayer

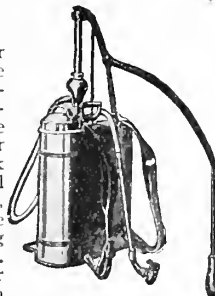
The demand for this portable Sprayer is rapidly increasing. The efficiency of this general-purpose Sprayer is finding the favor of thousands of florists and poultrymen throughout the country. This is a well-made machine. The tank consists of heavy galvanized steel, with a capacity of twelve gallons. This narrow-tread Sprayer meets all the requirements demanded in greenhouses and on poultry plants. The pump is of ample size; the pump and all working parts are brass; it has bronze ball valves; is double-acting; has a large air-chamber and

produces a continuous spray. The machine is equipped with a dasher agitator which, by each operation of the pump-handle, cleans the suction strainer of any sediment collecting thereon and prevents all clogging. Whitewash, cold-water paint, and all liquid insecticides are applied successfully with this Sprayer. A good nozzle, 10 feet of ½-inch good-quality hose, with a 3-foot spray rod and shut-off are furnished. \$15. Weight, net, 45 lbs.; shipping weight, 65 lbs.

The "Success" Knapsack Sprayer

A KNAPSACK SPRAYER AND BUCKET SPRAYER COMBINED

This combined Knapsack and Bucket Sprayer is superior and has many advantages over the cheaper hand Sprayer. It will apply successfully whitewash and all insecticides and fungicides, provided the materials pass through the strainer. In the top of each tank a copper strainer is provided for this purpose. The tank and pump are made entirely of brass and will not corrode. The pump has bronze ball valves, is double-acting and has a plunger agitator; the lever can be readily shifted, to allow pumping or spraying with either the right or left hand. To use it as a Bucket Pump, remove the lever and attach the extra handle provided with each Sprayer. On the top of tank a drip-cup receives any leakage from the plunger and returns it to the tank, thus preventing the operator's back getting wet. \$18. Weight, net 16 lbs.; shipping weight, 40 lbs.



Abol Syringe

The most economical and efficient of Hand Sprayers. Embodies all the good features that are desired. The new, improved nozzle has three caps—fine, medium, and coarse. The fluid is divided by two whirling streams which come into violent contact just before leaving the cap and scatter into tiny particles, which do not fall to the ground on being discharged, but hang in the air and envelope the tree or bush. A bend is furnished to spray the under foliage. \$8. Shipping weight, 4 lbs.



No. A. Barrel, 12 in. long, diam. 1 in. One spray rose and one jet. \$3. Weight, 3 lbs.



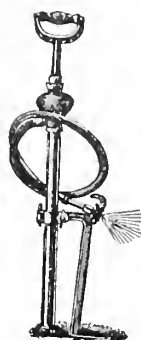
No. G. Barrel 16 inches long, diam. 1½ in. One spray rose and one stream jet, side attachment and elbow joint for sprinkling under foliage. \$4. Weight, 4 lbs.



No. H. Sheet-brass Syringe, with fixed spray rose. Barrel 16 inches long, diam. 1½ inches. \$2.75. Weight, 4 lbs.



No. 2. Barrel 13½ inches long, diam. 1½-in. One coarse and one fine spray rose and one jet, side attachment. \$4. Weight, 4 lbs.



S. & W. Bucket Spray Pump

The S. & W. Spray Pump is a saving in the cost of small hand Sprayers. It is a quality Sprayer. This Pump is made of heavy seamless brass tubing, with a large brass air-chamber; it has brass ball valves; is double-acting and will produce a continuous spray or stream. A bordeaux nozzle, with 3 feet of ½-inch spray hose is furnished. The nozzle can be regulated to throw a very fine, medium, or coarse spray. We recommend this Sprayer as the best cheap hand Sprayer for applying whitewash, cold-water paint and disinfectants. When ordering Sprayer to be sent by parcel post, allow for 10 lbs., the packed weight of Sprayer. \$4.25.

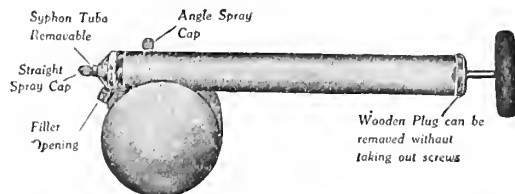
Extra ½-inch hose, five-ply, of good quality, is furnished at 14 cts. per foot.

Extra couplings, 25 cts. per set.



S. & W. Co's Vaporizing Sprayer

A marvelous insect exterminator; throws a spray as fine as mist and is therefore more effective than any other Spray Pump, and loses only about one-tenth the liquid. Shipping weight, 3 lbs. No. 1, all tin, 60 cts.; No. 2, galvanized reservoir, 75 cts.; No. 3, all brass, \$1.50.



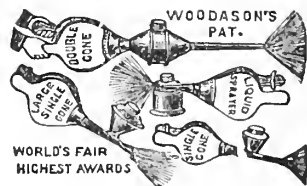
S. & W. Co's Continuous Sprayer

Will handle all solutions, insecticides, and disinfectants. Used in the greenhouse, kitchen-garden, window-garden, for rose bushes, and in the poultry-house. Two spray caps—one straight, the other at an angle for reaching under leaves or spraying directly down. Construction of tank permits the Sprayer to be operated at any angle, and it will not tip over when filling. Galvanized reservoir, \$1; brass reservoir, \$1.25. Weight, 3 lbs.

Bellows, Woodason's

Powder, small size. \$1 60
" large size. 2 75
Liquid, small size. 2 25
" large size. 2 75

Double-Cone Powder Bellows. For dusting plants with dry powders for insects and fungus. \$4.50.



S. & W. CO.'S BRASS SYRINGES

These Syringes are applicable for all horticultural purposes in the conservatory and garden. They are fitted with roses and jets for ejecting water in one stream or dispersing it in a fine or coarse spray, as required. Specially adapted for applying fluid insecticides.



No. A. Barrel, 12 in. long, diam. 1 in. One spray rose and one jet. \$3. Weight, 3 lbs.



No. G. Barrel 16 inches long, diam. 1½ in. One spray rose and one stream jet, side attachment and elbow joint for sprinkling under foliage. \$4. Weight, 4 lbs.



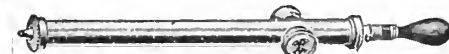
No. H. Sheet-brass Syringe, with fixed spray rose. Barrel 16 inches long, diam. 1½ inches. \$2.75. Weight, 4 lbs.



No. 2. Barrel 13½ inches long, diam. 1½-in. One coarse and one fine spray rose and one jet, side attachment. \$4. Weight, 4 lbs.

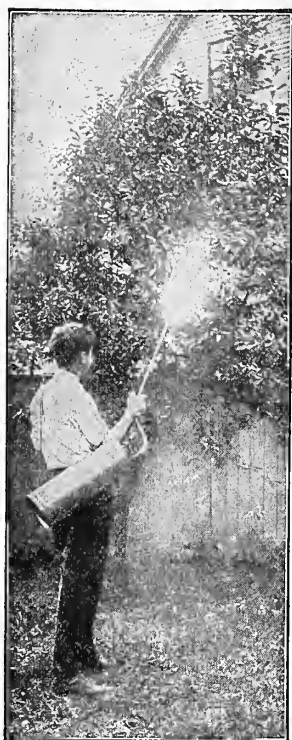


No. 10. Barrel 18 inches long, diam. 1½ inches. One coarse and one fine spray rose and one stream jet, with patent valves and elbow joint for sprinkling under the foliage. \$6.50. Weight, 5 lbs.



No. 11. Same as No. 10, without patent valves. \$5.50. Weight, 5 lbs.

Sprayers for Applying Insecticides and Fungicides



AUTO-SPRAY

Convenient, durable, efficient. Our patented leader of spray apparatus for small uses. Will do better work and do it easier than any other similar article. Useful with bordeaux and all solutions, also in applying cold-water paint or white-wash. Holds four gallons. Illustration shows our new "Auto-Pop" attachment which doubles the efficiency by saving half the solution and labor. Our "Anti-Choke" Nozzle, cleaned at every operation of "Auto-Pop," can never clog. Tank made of galvanized steel or brass. High-grade hose. Castings for handle, etc., all malleable. No continuous pumping as in the cases of the Knapsack Sprayer, no continuous pumping or slopping as in the case of the bucket pump. A few strokes of plunger compresses enough air to cover a quarter acre of potatoes or similar crop. The operator simply holds the nozzle. Also used for spraying disinfectants. A practical machine for potatoes, tobacco, small-fruits, vineyards, poultry-houses, greenhouses, etc. Extension pipes useful for spraying tall trees. Detailed descriptive circular on request.

Auto-Spray No. 1B. Brass Tank, with "Auto-Pop"..... \$8 50

Auto-Spray No. 1D, Galvanized Tank, with "Auto-Pop"..... 5 50

Two-Row Attachment for spraying two rows at one passing... 1 50

2-foot Brass Extension Pipe..... 60

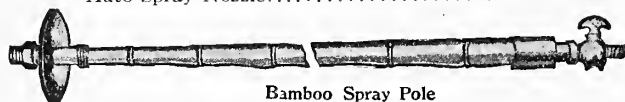
2-foot Galvanized Extension Pipe..... 40

Brass Elbows for spraying under vines..... 30

Torch..... 1 00

Brass Strainer for straining solution..... 1 00

Auto-Spray Nozzle..... 60



Bamboo Spray Pole

SPRAY POLE FOR TALL-TREE SPRAYING

Bamboo Spray Pole

Bamboo Spray Poles are brass-lined to resist the corroding effect caused by strong solutions. Each Spray Pole is equipped with a drip-shield at the top and brass shut-off at the bottom. Spray Poles over 12 feet are not entirely satisfactory, and we do not recommend them. 8 ft. \$3, 9 ft. \$3.15, 10 ft. \$3.30, 12 ft. \$3.60.

S. & W. CO.'S "FRUITALL" SPRAY PUMP

The "Fruitall" illustrated herewith has been designed especially to meet the demand for a low-priced Sprayer combining the necessary durability, efficiency, and strength.

Outfit C. Sprayer with agitator and one lead of 15 feet $\frac{1}{2}$ -inch discharge hose, with "Mistry" or "Mistry Jr." spray nozzle. Price, without barrel, \$14.

Outfit D. Sprayer with agitator and two leads, 15 feet each, $\frac{1}{2}$ -inch discharge hose, with "Mistry" or "Mistry Jr." Spray nozzle. Price, without barrel, \$16.75.

We supply barrel, and mount sprayer on it, for \$3.75, extra, but the barrel is not furnished unless specially ordered.



POMONA SPRAY PUMPS

The Best Barrel Spray Pump on the Market

It is of large capacity and powerful, with long adjustable leverage, so that it is easily operated by one person, when necessary, but is especially built for spraying from two leads of hose. The unusually large steel air-chamber gives sufficient pressure for a continuous and regular spray. All working parts are of brass, including plunger and valves, which are easily accessible; it has a paddle agitator. The bulk of the pump goes within the barrel, it is not top-heavy, and does not catch low branches.



Pomona Outfit A. Sprayer with agitator and one lead of 15 feet of $\frac{1}{2}$ -inch spray hose, with Mistry Jr. Spray Nozzle.

With barrel..... \$24 00

Pomona Outfit B. Same as the above, except with two leads of hose and two nozzles. (See cut.)

With barrel..... \$26 75

Extra trunnions for barrel, 75 cts. per set.

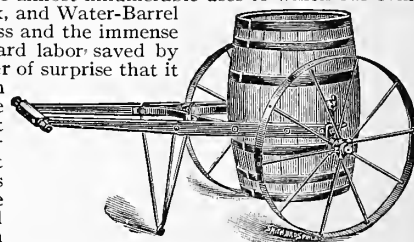
S. & W. Co.'s Truck is recommended to save time and labor.

RUBBER SPRAY HOSE

High-pressure, $\frac{1}{2}$ -inch bore, seven-ply Hose is best. 18 cts. per foot. Low pressure, $\frac{1}{2}$ -inch bore, five-ply, 14 cts. per foot. Couplings and clamps, 25 cts. extra.

S. & W. CO.'S TRUCK, LEAF RACK AND WATER-BARREL COMBINATION

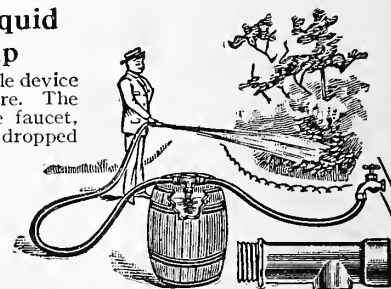
When we consider the almost innumerable uses to which our combined Truck, Leaf-Rack, and Water-Barrel can be put, its handiness and the immense amount of time and hard labor saved by its use, it is not a matter of surprise that it is steadily growing in popular favor. It is one of those articles that cause the user to wonder how he ever did without it, as it really becomes indispensable when once used. Prices: Truck and barrel, as in cut, with 2-in. tires, \$13.50; with 3-inch tires, \$14.50; with handy cart box, length 38 in. long by 24 in. wide by 10 in. deep, \$4.50 extra; with leaf-rack, 42 in. long by 28 in. wide by 21 in. deep, \$7 extra; complete with truck, water-barrel, box, and leaf-rack, \$24.



The Kinney Liquid Manure Pump

A small but very valuable device for applying liquid manure. The Pump is attached to the faucet. The end of the suction hose dropped

into the barrel or tank of clear liquid manure. To the outlet of Pump, attach the $\frac{3}{4}$ -inch discharge hose, open the faucet, and take up the end of the discharge hose. Capacity, five to fifteen gallons per minute. A thing to be remembered—the water-pressure does the pumping and dilutes the liquid manure approximately one-half. An even flow continues as long as the liquid manure remains solvent, and until the barrel or tank is empty, provided the liquid manure contains no coarse clogging materials. Used also for tempering cold water to hot, drawing water out of pits, etc. Pump is brass, nickel-plated. Weight, 15 ozs. \$2.



SPRAYING IS A NECESSITY, AND OUR APPLIANCES ARE THE VERY BEST FOR THE PURPOSE. WRITE FOR OUR SPRAYING CALENDAR.

REMEDIES FOR INSECTS AND FUNGUS

NOTE.—Insecticides marked * can be sent by Parcel Post at purchaser's expense. Consult your local post-office for rate from New York

Aphine. Effective against all soft-bodied and plant-sucking insects, such as green, black, and white fly, red spider, thrips, mealy bug, brown and white scale. Used as a spray when diluted with water in the proportions as directed on each can. Indorsed by professional gardeners and commercial growers of reputation. An insecticide which can be used indoors and in the garden. An excellent cleanser for house plants. Gal. \$2.50, qt. \$1, pt. 65 cts., ½pt. 40 cts., ¼pt. 25 cts.

***Aphis Punk.** Used for fumigating in greenhouses, giving off dense fumes of nicotine. Consists of paper saturated with nicotine. Box 60 cts., case of 12 boxes \$6.50.

Arsenate of Lead. For all leaf-eating insects. Guaranteed not to injure the foliage. Three pounds will do the work of four pounds of other brands, and will not readily wash off. Lb. 25 cts., 2 lbs. 40 cts., 5 lbs. 90 cts., 10 lbs. \$1.75, 25 lbs. \$3.50, 50 lbs. \$6.50, 100 lbs. \$12, barrel of 600 lbs. \$60.

Black-Leaf 40. A concentrated solution of nicotine sulphate; an excellent spray for black aphides and sucking insects of all kinds. Dilutes one part to 900 or 1,000 parts of water, according to treatment. Full directions on each package. 1-oz. bottle 25 cts., ½-lb. tin 75 cts., 2 lbs. \$2.50, 10 lbs. \$10.75.

***Quick Bordeaux.** Is entirely different from all ordinary prepared fungicides, due to the unique manner in which the chemicals are placed in the bags, whereby they keep fresh and strong as long as kept dry. Directions for use: Instruct the least-experienced man about the place to hang one bag of Quick Bordeaux in a 50-gallon barrel of water and squeeze it until the contents are dissolved. One man and one barrel only are required. Will stick to foliage. Lb. can, 25 cts., makes 5 gallons spray; 5-lb. bag \$1, 10-lb. bag \$1.75, 50 lbs. \$8.50, 100 lbs. \$16.

***Ant-i-cide.** For use against ants in lawns. They are a persistent pest. It is impossible to harbor them and have a good lawn. Either give up the lawn or the ants. If you prefer the lawn, try Ant-i-cide. It is a powder to be sprinkled on the ground. One pound covers about 200 square feet. Induce your neighbors to use Ant-i-cide and thus help protect your premises from invasion. 1-lb. box 35 cts., mailing weight 2 lbs.; 5-lb. tins \$1.25, mailing weight 6 lbs.; 25-lb. drums \$5 each, mailing weight 33 lbs.

Bordeaux Mixture. One part dilutes with twenty-four parts of water. This is in paste form. Qt. 50 cts., gal. \$1.25, 5 gals. \$5.

Borowax. The fruit-grower's friend. A complete protection against borers if properly applied to peach, plum, apple, pear, and quince trees. Qt. 35c., ½gal. 60c., gal. can \$1, 6 gals. \$5, ½bbl. \$20, bbl. \$35.

***Bug Death.** Largely used instead of paris green. It is claimed to have the same effect. The manufacturers say that it acts as a

fertilizer as well as an insecticide. It comes in powder form, and is applied pure. Not poisonous to persons. Lb. 20 cts., 3 lbs. 45 cts., 5 lbs. 60 cts., 12½ lbs. \$1.25, 100 lbs. \$9.25.

We recommend the **Dickey Bug Death Duster**, for use in applying Bug Death, dry, to small flower- or vegetable-gardens. It is a mighty handy thing to have around the house. 25 cts.

For farm use the **Acre-an-Hour Sifter** is ideal for applying Bug Death dry. It is the very latest, a remarkably effective and distinctly economical method. Easy to operate and gives quick covering to all plants and vines requiring a top application. The price for this especially useful farm utensil is 75 cts.

***Cattle Comfort.** Protects horses, cattle, dogs, etc., from flies, gnats, mosquitos, horse-flies, and other insects; is healing to sores, destroys head-lice on fowls, etc. Qt. 45 cts.

***Climax Lawn Sand.** A unique combination of carefully dried and finely ground chemicals. Destroys weeds in lawns. 3½-lb. can 40 cts., 7-lb. can 75 cts., 14-lb. can \$1.25, 28-lb. pkg. \$2, 56-lb. pkg. \$3.50, 112 lbs. \$6, 560 lbs. \$25, 1,120 lbs. \$45.

Copper Solution Ammoniated. A fungicide like the same as bordeaux mixture, the essential ingredient, carbonate of copper, being dissolved in ammonia in this while in bordeaux it is counteracted by lime. For late sprayings, when fruits are nearing maturity, or plants in bloom, copper solutions are usually used. Qt. 75 cts., gal. \$2.

***Corona Dry** is chemically pure arsenate of lead. It is manufactured by a special process which we control—the quality is patented. It offers positive control of all leaf-eating insects on fruit and shade trees and shrubs. It is superior to paris green for potato bugs in every way. In fact there are very few of the so-called "chewing insects" common on vegetables, flowering shrubs, fruit, and ornamental trees, which "Corona Dry" will not effectively check. 10-lb. pkg. \$3.50, 5-lb. pkg. \$2, 1-lb. pkg. 50 cts., ½lb. pkg. 30 cts.

***"Electro" Tree Wound Paint.** When applied, it is an insurance against decay because its scientific composition gives penetrating, antiseptic, and elastic waterproofing qualities found in no other paint. Qt. 50 cts., gal. \$1.50, 5 gals. \$6.25, 10 gals. \$10.

***Cut-Worm Killer.** This Cut-Worm Killer is a coarse powder for sprinkling near the plants to be protected. It has an enticing odor, and the worms prefer it to vegetation. Chickens and birds will not be poisoned if they eat the worms killed by it. Don't use poisonous cut-worm killers—they kill the birds that eat the dying worms. One-pound sprinkler box 25 cts.; 5-lb. tin, containing sprinkler box, \$1; 25-lb. drum, containing sprinkler box, \$4.

***Fir-Tree-Oil Soap.** A formula of fir-tree oil, prepared in soap form and preferred by some. It will do all claimed for the fluid preparation. ½lb. tin 30 cts., 2 lbs. 85 cts., 10 lbs. \$4.

Fungine. An infallible remedy for mildew, rust, wilt, bench-rot, and other blights affecting flowers, fruits, and vegetables. Highly indorsed by leading growers. It is equally effective under glass and out-of-doors. A spraying material which is diluted with water, and does not stain the foliage. Gal. \$3.50, qt. \$1, pt. 65 cts., ½pt. 40 cts.

***Grape Dust.** For mold, mildew, or rust-mites, either in the green-houses or open air. 5 lbs. 40 cts., 10 lbs., 75 cts., 25 lbs. \$1.75.

Hellebore, Powdered. Good for exterminating currant worms. ½lb. 35 cts., lb. 65 cts., 5 lbs. \$3.

Herbicide. See Weed-Killers, page 146.

Kerosene Emulsion. Diluted in water, this makes an excellent spray for mild forms of scale, and soft lice of any kind, such as infest rose and fruit bushes, vegetables and trees. Liquid diluted one part to twenty parts of water. Liquid. Qt. 30 cts., gal. 85 cts., 5 gals. \$3.50.

Lemon Oil. Odorless and poisonless; one to thirty to fifty parts of water. Destroys mealy bug, scale, thrips, red spider, black and green fly, caterpillar, etc. ½pt. 25 cts., pt. 40 cts., qt. 75 cts., ½gal. \$1.25, gal. \$2.

Lime-Sulphur, Bowker's Concentrated. For destroying San José scale. One gallon makes ten gallons of spray; dilute with cold water. Bowker's Lime-Sulphur is manufactured under the direct personal supervision of skilled graduate chemists who have devoted years to manufacturing spraying materials, with the one dominant idea that any spray to be worth branding "Bowker's" must be the best. Bowker's is "Lime-Sulphur" with the guesswork left out. 1-gal. can 75 cts., 5-gal. can \$2.25, 10-gal. can \$3.50.

Nicotide. Used as a spray or as a vapor, principally in the latter way. We have a special lamp which has a tin saucer above it in which is placed the material (quantity to be determined by cubic feet of air-space in the greenhouse) and the nicotine fumes are thus distributed. It is very effective in destroying thrip, aphid, white fly, red spider, etc. ¼pt. 70 cts., ½pt. \$1.25, pt. \$2.50, qt. \$4.50, ½gal. \$8.25, gal. \$15.

Nico-Fume Liquid. This preparation is used similar to Nicotide, and is used by many of the leading growers. ¼lb. can 50 cts., 1-lb. can \$1.50, 4-lb. can (½gal.) \$5.50, 8 lbs. (1 gal.) \$10.50.

***Nico-Fume Paper.** This is a paper treated with nicotine, giving off dense fumes of strong nicotine when ignited. It is also used for tying near blooms of chrysanthemums in early fall to keep down insects. Preferred by many who do not wish to spray or vaporize. Box of 24 sheets 85c., box of 144 sheets \$4, box of 288 sheets \$7.50.

Nikoteen. One of the milder forms of tobacco or nicotine preparations, used extensively for spraying; also for vaporizing. ¼pt. 40c., pt. \$1.50, case of 10 pts. \$14, 4 lbs. (½gal.) \$5, 8 lbs. (1 gal.) \$10.

Nikotiana. Is a 12 per cent solution for vaporizing and spraying. Less concentrated than other nicotine products, it is nevertheless equally effective at proportionate strength and fully as economical. Where a nicotine solution is desired, Nikotiana will meet all the requirements. Qt. \$1.50, gal. \$4.50.

Paris Green. ¼lb. 20 cts., ½lb. 35 cts., lb. 60 cts., 5 lbs. \$2.50.

Pyrox. (Bowker's.) The one best and safest all-round spray which kills all leaf-eating insects and prevents blights and all fungous troubles, without injury, on fruit trees, grape-vines, currant bushes, potatoes, cantaloupes, cucumbers, and other garden vegetables, also on rose bushes, shrubbery, etc. It is a creamy paste which looks like paint and "sticks like paint." It needs only to be mixed with cold water and it is ready to apply. Once tried, always used. Lb. 25 cts., 5 lbs. \$1, 10 lbs. \$1.85, 25 lbs. \$4.50, 50 lbs. \$8, 100 lbs. \$15, 300 lbs. \$43.50.

Readeana. Rose-bug exterminator. A poisonous preparation which dilutes in water. Destroys rose bugs, greenfly, mealy bug, light, mildew, etc. Qt. \$1.35, ½gal. \$2.25, gal. \$4.



REMEDIES FOR INSECTS AND FUNGUS

NOTE.—Insecticides marked * can be sent by Parcel Post at purchaser's expense. Consult your local post-office for rate from New York

Scalecide. Soluble crude oil. Used for the destruction of the San José scale. Dilute at the rate of one gallon to twenty gallons of water. Scalecide does not clog nozzles, hose or pump, and is pleasant to use. This preparation is perhaps the best known and is very widely advertised. Orchardists throughout the country use it in large quantities. Trees may be sprayed in winter and early spring before they start to come to bud. Qt. 45 cts., gal. \$1.50, 5 gals. \$4.50, 10 gals. \$7.50, 30-gal. bbl. \$17.50, 50-gal. bbl. \$27.50.

***Slug-Shot.** The standard remedy for currant worms, rose slugs, cabbage worms, and almost any soft-shelled insects that infest the garden. Lb. 15 cts., 5 lbs. 35 cts., 10 lbs. 65 cts., 100 lbs. \$6.50.

Styptic. For preventing bleeding of vines after pruning. Bottle, \$1.25.

***Sulphur.** Used principally in greenhouse for checking mildew (see below for Campbell's Sulphur Vaporizers). Lb. 10 cts., 5 lbs. 45 cts., 10 lbs. 75 cts., 100 lbs. \$7.

Sulpho-Tobacco Soap. A combination of tobacco extract and sulphur, excellent for washing and spraying plants; dissolve in warm water. 3-oz. pkg. 10 cts., 8-oz. pkg. 20 cts.

***Tobacco Dust (Kilmdead).** The best of the Tobacco Dusts for used for fumigating. Lb. 10 cts., 5 lbs. 40 cts., 25 lbs. \$1.25, 50 lbs. \$2.25, 100 lbs. \$4.

Tobacco Stems. Used for fumigating and under benches in greenhouses. Bale of 100 lbs. \$1.50.

***Sticky Tree Cord.** A soft cord about 3/8 inch in diameter, thoroughly saturated and coated with a black sticky material similar in character to that used on sticky fly-paper. It is supplied in tubes about 2 3/4 x 6 inches, and the cord is pulled out through a hole in the screw top, which has an attachment for clamping to facilitate cutting off the cord. It is applied to trees by tacking one end to the tree, then passing it around once or twice, tacking about every 18 inches, and then cut off. The cord will not run or drip appreciably and will remain sticky for three or four months, according to climatic conditions. It has been endorsed by prominent park and cemetery superintendents, foresters and horticulturists generally. Tube contains about 30 feet of cord, 25 cts.

***Tree Tanglefoot.** A paste preparation for painting around the trunks of trees, in the form of a band. Caterpillars and other crawling pests cannot get over it. Lb. 35 cts., 3-lb. can \$1, 10-lb. can \$3, 20 lbs. \$5.50, 25 lbs. \$6.75.

Vermine. A soil sterilizer and germicide for all soil vermin, such as cut-, eel-, wire-, and grub-worms, slugs, root-lice, maggots and ants. Use one part of Vermine to four hundred parts of water, thoroughly soaking the ground. It does its work effectively without injury to vegetation, and protects your crops and lawns against the ravages under the soil. 1/4 pt. 25 cts., 1/2 pt. 40 cts., pt. 65 cts., qt. \$1, gal. \$3, 5-gal. keg \$12.50.

Liquid Weed Killers

There is nothing more annoying to the well-kept home grounds than weeds constantly coming up in the roadways, paths and gutters. The following weed-killers may be applied by means of a sprinkling apparatus of any kind from the small sprinkling can to the large street-sprinkling wagon. They are harmless to stone, woodwork, or shoes and are perfectly odorless. One thorough application will kill all weeds as well as the roots of the same. They are combinations of high-grade chemicals which when diluted according to the directions given will destroy weeds at once. The best time to apply is shortly after a rain. One gallon of either of these preparations diluted is sufficient to cover 100 to 150 square yards of space.

HERBICIDE. This is a standard preparation which the manufacturer recommends being diluted 1 part to 40 parts of water. Qt. 50 cts., gal. \$1.50; 2-gal. keg \$2.75, 5-gal. keg \$5.50, 10-gal. keg \$10, 25-gal. cask \$21.50, 48-gal. bbl. \$35.

TARGET BRAND. This is also a similar preparation to the above which the manufacturer recommends being diluted 1 part to 50 parts of water. Qt. 50 cts., 1/2 gal. 75 cts., gal. \$1.25, 5 gals. \$5, 10 gals. \$10, 50 gals. \$35.

Whale- or Fish-Oil Soap. For mild forms of scale, and is an excellent summer spray, when something stronger cannot be used, where the San José scale exists. It is good for washing off lemon trees, oleanders and almost anything that would be infested with a soft-shelled or in fact almost any kind of insect. Dissolves in water according to various purposes. Lb. 20 cts., 5 lbs. 75 cts., 10 lbs. \$1.25, 25 lbs. \$2, 100 lbs. \$7.50.

Worm Eradicator, Reade's. When applied, the worms will immediately rise to the surface of the ground, or will fall off the trees, fruits or flowers, and in a few minutes will die. 25-ct. (4-oz.) bottle makes 5 gals., 50-ct. (8-oz.) bottle makes 10 gals., \$1 (24-oz.) bottle makes 25 gals. 48-oz. bottle \$2, 1 gal. \$4, 5 gals. \$17.50.

Worm Eradicator. Common earthworms or "angleworms" are a decided nuisance in lawns, turf courts, and putting-greens. The casts are unsightly, impair the playing qualities of greens and add greatly to the up-keep cost, as daily sweeping and rolling becomes necessary. To rid greens, courts or lawns of worms, apply Worm Eradicator evenly at the rate of one-half pound to the square yard, and flood the greens immediately. If possible, the application should be made on a warm, damp day, early in May. The worms will come to the surface, where they may be raked or swept up and removed. One application each season is usually sufficient; but, should the worms again become numerous, a second application should be made about the middle of September. Worm Eradicator is non-poisonous to human beings. It is decidedly beneficial to the grass, having a direct but mild fertilizing action which adds materially to its value. Sold in powder form. 5 lbs. 50 cts., 10 lbs. 85 cts., 25 lbs. \$1.50, 50 lbs. \$2.25, 100 lbs. \$4, 500 lbs. \$16, 1,000 lbs. \$31. Ton (sufficient to cover an acre) \$60.

X-L-ALL LIQUID INSECTICIDE. Destroys mealy-bug, scale, thrip, red-spider, green and black fly, caterpillars, blight and all insect pests in the garden; it is perfectly safe to use on tender plants. For the winter dressing of vines, figs, peaches and other fruit trees, it has been proved to be the safest and most valuable preparation in the market. Leaves the foliage bright and clean, and much improved in appearance. Qt. \$1.25, 1/2 gal. \$2.25, gal. \$4.50.

X-L-All Vaporizing Compound. Used very extensively abroad for vaporizing. No. 1 (sufficient for 40,000 cubic feet) \$8; No. 2 (sufficient for 20,000 cubic feet) \$4.50; No. 3 (sufficient for 10,000 cubic feet) \$2.25.



Defiance

Vaporizer, Campbell's Patent Sulphur.

Designed to vaporize sulphur in greenhouses without danger. Most useful for killing mildew and other fungous diseases. No. 1, for houses up to 5,000 cubic feet of space.....\$6 00
No. 2, for houses up to 10,000 cubic feet of space.....7 50

Glass Balls for above. Box of 6, 15 cts.

Yellow Powder. Tin. 20 cts.

Hollow or Solid Wicks, for either size, 15 cts.

X-L-All Vaporizing Lamp. A lamp specially designed for vaporizing of X-L-All Compound. Small size, 50 cts.; larger size, 75 cts.

Fumigators and Vaporizers

Fumigator, "Eureka." For fumigating with tobacco stems. Each
No. 1, holds 1/2 peck stems.....\$1 50
No. 2, holds 1 peck stems.....2 00
No. 3, holds 1/2 bushel stems.....2 50

Vaporizing Lamp, Defiance.

Practical and indestructible; all metal; burns kerosene; used for dispensing fumes of Nico-Fume and other preparations of this sort. 50 cts. each.

Vaporizer, Campbell's Patent Sulphur.

Designed to vaporize sulphur in greenhouses without danger. Most useful for killing mildew and other fungous diseases. No. 1, for houses up to 5,000 cubic feet of space.....\$6 00
No. 2, for houses up to 10,000 cubic feet of space.....7 50

Glass Balls for above. Box of 6, 15 cts.

Yellow Powder. Tin. 20 cts.

Hollow or Solid Wicks, for either size, 15 cts.

X-L-All Vaporizing Lamp. A lamp specially designed for vaporizing of X-L-All Compound. Small size, 50 cts.; larger size, 75 cts.



Sulphur Vaporizer

CHARCOAL, COCOANUT FIBER, PEAT AND MOSS

Charcoal. For prices and sizes, see page 147.

Cocoanut Fiber. Excellent material for use in growing bulbs without drainage. 5 lbs. 20 cts., 25 lbs. 75 cts., 50 lbs. \$1.25, 100 lbs. \$2.

Leaf-Mold. Used for preparing rhododendron beds. Bbl. \$3.

Moss, Live Green Sphagnum. Freshly gathered in season. Bbl. \$2.50.

Moss, Dry Sphagnum. Large bale \$3.

Moss, Sheet, Natural Green. For covering the pots or tubs of large plants; sheets range in size about 1 foot wide and from 2 to 5 feet long. Bag (10 lbs.) \$5.

Peat, (Osmundi.) For orchids. Bbl. \$2.50.

Peat, Rotted, Fibrous. An excellent material for mixing with potting soil for many plants. This peat has been dug from an old bog and exposed for a number of years until it has become thoroughly decayed. Bbl. \$2.50.

FERTILIZERS

Our list contains the very best and most modern kinds. We can quote special prices on carload quantities

All prices subject to market changes

S. & W. Co.'s Bone Fertilizers

No. 1 Bone Dust for Quick Action.

A fine-ground bone of the best quality that is immediately available. As a top-dressing or for mixing with soil will be found very effective. 5 lbs. 30 cts., 10 lbs. 50 cts., 25 lbs. \$1, 50 lbs. \$1.60, 100 lbs. \$3, ton \$50.

No. 2 Bone Dust for General Use.

A bone dust about pinhead size, with a fair percentage of bone flour. Excellent for top-dressing lawns as well as good for mixing with soil. Sold largely to carnation- and rose-growers for top-dressing and for mixing with soil. 5 lbs. 25 cts., 10 lbs. 40 cts., 25 lbs. \$1, 50 lbs. \$1.60, 100 lbs. \$3, ton \$50.

No. 3 Crushed Bone for Vines and Trees.

Largely used for vines, trees and shrubs. About the size of a bean. Very effective and lasting. 5 lbs. 30 cts., 10 lbs. 50 cts., 25 lbs. \$1, 50 lbs. \$1.60, 100 lbs. \$3, ton \$50.

S. & W. Co.'s Charcoal. For mixing with soil for pot-plants and vines. No. 1, Powdered; No. 2, Medium; No. 3, Lumps, 3 to 4 inches. Any size, per bag of 50 lbs., \$1.50, 100 lbs. \$2.50, 1,000 lbs. \$22.50, 2,000 lbs. \$43.

S. & W. Co.'s Potato Manure.

This brand is our leader, and is manufactured from a bone-and-meat basis; it is high in analysis and a strictly high-grade fertilizer. It is a brand that has given universal satisfaction for all root-crops, and it is unequaled for potatoes, gardening or truck-farming. 50 lbs. \$1.75, 100 lbs. \$3, 500 lbs. \$14, 1,000 lbs. \$27, ton \$50.

S. & W. Co.'s General Garden Fertilizer.

This fertilizer is for general garden work for vegetables, flowers and fruits. 10 lbs. sufficient for space 15 x 15; 500 lbs. to the acre. 5 lbs. 25 cts., 10 lbs. 45 cts., 25 lbs. \$1, 50 lbs. \$1.75, 100 lbs. \$3, ton \$50.

S. & W. Co.'s Corn Fertilizer.

This is a brand which many farmers prefer to use that have sufficient quantities of stable manure for broadcast application, using this brand in the hill or drill. We have many testimonials as to its quality for growing splendid crops of corn. 50 lbs. \$1.75, 100 lbs. \$3, 500 lbs. \$14, 1,000 lbs. \$27, ton \$50.

GENERAL LIST OF FERTILIZERS

ASHES, CANADA HARDWOOD. Quantity required: Apply one to two tons to the acre, as one heavy application will help much more than the same quantity would applied in fractions. Apply in early spring or late fall. Bbl. of about 200 lbs., \$3; ton of 2,000 lbs., in bbls., \$25; by car, \$23 per ton.

BASIC SLAG. Sec Phosphate.

BLOOD. (Dried.) Excellent for indoor culture of flowering plants, such as carnations, roses, etc. Its chief element is nitrogen. 10 lbs. 75 cts., 50 lbs. \$3, 100 lbs. \$5.

BON ARBOR. A concentrated chemical fertilizer to be used in liquid or powder form according to the directions on the package. Dilute 1 pound with 30 gals. of water. 1/2 lb. pkg. 25 cts., 1-lb. pkg. 50 cts., 5 lbs. \$1.80. Furnished in lots of 100 lbs. or over at \$21 per 100 lbs., 50 lbs. \$11.50, 25 lbs. \$7.

BOWKER'S AMMONIATED FOOD FOR FLOWERS. Made especially for plants grown in the conservatory, house, or garden; clean, free from offensive odor. Full directions with each package. Small size 15 cts. each, large size 25 cts.; by mail, 20 cts. and 30 cts.

CLAY'S FERTILIZER. A celebrated English chemical fertilizer used for forcing greenhouse plants and vegetables. 14-lb. bag \$1.25, 28-lb. bag \$2.25, 56-lb. bag \$4, 112-lb. bag \$7.

COW or CATTLE MANURE, Shredded. One sack of this is equal to one cartload of fresh cow manure; is convenient to handle, making it possible for everyone to get this usually scarce article at all times. In 100-lb. sacks only. 100 lbs. \$2.50, 500 lbs. \$11.25, 1,000 lbs. \$20, ton \$35.

EMERALD LAWN DRESSING. A clean, portable, and convenient lawn dressing, which we have found to be never-failing in inducing a rapid and rich green growth. It should be sown broadcast in the spring or fall. It is in every way more desirable than manure. The use of Emerald Lawn Dressing entirely does away with the old practice of top-dressing lawns with stable manure. Quantity required: A 10-lb. package is sufficient to go over an area of 300 square feet, or for forming a new lawn, from 1,000 to 1,500 lbs. to the acre, or a smaller quantity for renovating an old one. It is best to apply during dull weather and if applied during warm weather soak down with a hose after applying. 5 lbs. 25 cts., 10 lbs. 45 cts., 25 lbs. \$1, 50 lbs. \$1.75, 100 lbs. \$3, 500 lbs. \$14, 2,000 lbs. (ton) \$50.

FARMOGERM. A nitrogen-gathering bacteria which should be used when planting seeds of all leguminous crops such as peas, beans, and clovers. Garden-size bottles 50 cts., acre-size bottles \$1.50, 5-acre-size bottle \$5. State what seed legume you wish to inoculate when ordering. Pamphlet telling all about inoculation free on request.

LIME, Agricultural, Hydrated. This Lime is specially prepared for use on the soil, and is a combination of calcium-hydrate and calcium-carbonate, finely pulverized. Quantity required: Heavy soils, 2,000 to 6,000 lbs. to the acre; light, sandy soils, 1,000 to 3,000 lbs. to the acre, according to their apparent need. 10 lbs. 25 cts., 100-lb. bag \$1.25, 500 lbs. \$5, ton \$14. In lots of three tons or over, \$12.50 per ton; carload lots, \$9 per ton, f.o.b. New York.

LIMESTONE, PULVERIZED. This product is having a large sale among the most intelligent agriculturists, with the best results. It is made from the purest crystalline, white limestone obtainable, and has many advantages over burnt or caustic lime. Not being caustic, it does not burn the humus in the soil, and may be applied at any time of the year without danger. It is good for all crops, is especially recommended for the successful growing of alfalfa, and, owing to its extreme fineness, admits of very even distribution. Apply 2 tons to the acre. Put up in 100-lb. bags, \$1, 500 lbs. \$4, 1,000 lbs. \$7, ton \$12. In carload lots, in bags, f.o.b. works, \$7.50 per ton. In car lots in bags, the bags returnable at 10 cts. each, delivered back to the works. This makes net cost of \$5.50 per ton.

MANURE, PULVERIZED HORSE. This horse manure is taken from large deposits which have been allowed to become thoroughly rotted. It is evenly dried by artificial heat, screened and ground without liberating any of the original elements, its efficiency being increased so that its component parts are immediately available for plant-food. It is excellent for mixing with soil for potted plants; for field crops; for vegetable gardens, promoting rapid, steady growth. 100-lb. bag \$2.25, 500 lbs. \$10, ton \$35.

NITRATE OF SODA. Quantity required: Being extremely soluble, it is usually applied after the plants are above ground, 100 to 500 lbs. to the acre. 1-lb. tin 25 cts., 5-lb. pkg. 40 cts., 10-lb. pkg. 75 cts., 25-lb. bag \$1.50, 50-lb. bag \$2.75, 100 lbs. \$5.

PHOSPHATE, High-Grade Acid or Rock. Apply 1,000 lbs. to the acre. Used for mixing with other fertilizers to increase the phosphoric acid analysis. In 200-lb. sacks only, \$3.50, ton \$30.

PHOSPHATE, Thomas' Basic Slag. Contains proper elements to produce a rich, luxuriant growth; apply 600 to 800 lbs. to the acre. 5 lbs. 50 cts., 10 lbs. 90 cts., 25 lbs. \$1.75, 50 lbs. \$2.50, 100 lbs. \$4.

SALT. For agricultural purposes, asparagus beds and putting on walks and roads to kill weeds. Apply 600 to 800 lbs. to the acre in early spring. 10 lbs. 20 cts., 25 lbs. 30 cts., 50 lbs. 55 cts., 100 lbs. \$1, 200 lbs. \$1.50, ton \$10.

SCOTCH SOOT. Genuine imported. For stimulating a healthy growth of dark green foliage, and it will free the soil of slugs, grubs and cut-worms. 10 lbs. 60 cts., 50 lbs. \$2.50, 100 lbs. \$4.

SHEEP MANURE, PURE PULVERIZED. A pure, natural, nutritious manure. Immediate and lasting in effect. Excellent for mixing with the soil for greenhouse plants. In the vegetable-garden it promotes a rapid, steady growth until maturity. It makes a rich liquid manure. Quantity required: For garden and field crops, one to two tons to the acre; one-half before plowing, the balance before harrowing. For top-dressing grass, use one ton to the acre, applied in fall or early spring. 100-lb. bag \$2.25, 500 lbs. \$10, ton \$35. In packages of 5 lbs. 25 cts., 10 lbs. 40 cts.

THOMSON'S CHRYSANTHEMUM MANURE. A highly concentrated English chemical fertilizer used by the leading private gardeners in America and abroad. May be used in liquid or dry form. 7-lb. bag \$1.50, 14-lb. bag \$2.50, 28-lb. bag \$4, 56-lb. bag \$7.

THOMSON'S SPECIAL FLOWER, VEGETABLE and VINE MANURE. This excellent chemical fertilizer is used extensively for forcing flowers, fruits and vegetables. 28-lb. bag \$2.50, 56-lb. bag \$4, 112-lb. bag \$7.

INDEX

Vegetable Seeds

	PAGE
Artichoke.....	12
Asparagus.....	12
Beans.....	10, 13-15
Beets.....	10, 16, 34, 38
Brussels Sprouts.....	16
Cabbage.....	10, 17, 35, 38
Carrots.....	10, 18, 38
Cauliflower.....	19
Celeriac.....	20
Celery.....	10, 20
Chard, Swiss.....	34
Chervil.....	16
Chicory.....	16
Corn.....	10, 21
Corn Salad.....	22
Cress.....	16
Cucumber.....	22
Dandelion.....	22
Eggplant.....	23
Endive.....	16, 23
Garlic.....	22
Gumbo.....	29
Herbs.....	86
Kale.....	23, 34
Kohlrabi.....	23
Leek.....	10, 23
Lettuce.....	24
Mangel-Wurzel.....	38
Marjoram.....	23
Mushroom Spawn.....	26
Muskmelon.....	10, 25
Mustard.....	23
Novelties and Specialties.....	10, 11
Okra.....	29
Onion.....	11, 27, 28
Parsley.....	11, 29
Parsnip.....	11, 29
Peas.....	11, 30, 31
Pepper.....	11, 29
Pepper Grass.....	16
Pe-Tsai.....	10
Potato.....	11, 32
Pumpkins.....	32
Radish.....	33
Rhubarb.....	29
Root Crops for Stock-feeding.....	38
Rutabaga.....	38
Salsify.....	34
Scorzonera.....	34
Sorrel.....	34
Spinach.....	11, 34
Sprouts.....	34
Squash.....	35
Tomato.....	11, 36, 37
Turnip.....	37, 38
Vegetable Marrow.....	35
Vegetable Roots and Plants.....	86
Watermelon.....	26
Witloof.....	16

Flower Seeds

Acacia.....	39
Aconitum.....	39
Abronia.....	39
Abrus.....	39
Abutilon.....	39
Achillea.....	39
Acroclinium.....	73
Ageratum.....	39
Agrostemma.....	39
Alkanet.....	40
Aloesia.....	39, 71
Alstromeria.....	39
Alyssum.....	40
Anaranth, Globe.....	53, 73
Anaranthus.....	40
Amethyst.....	44
Anchusa.....	44
Anemone.....	40
Anemone.....	40
Antirrhinum.....	4, 41
Aquilegia.....	40
Arctotis.....	41
Aristolochia.....	41
Asparagus.....	41
Asperula.....	43
Asters, 2, 3, 4, 42, 43, 70.....	43
Aubrietia.....	43
Baby's Breath.....	54
Balloon Vine.....	43
Balsam.....	44
Baptisia.....	43
Bartonia.....	43
Beard Tongue.....	64
Beets, Ornamental.....	73
Begonias.....	44

Bellflower, Chinese.....	39, 45, 72
Bellis.....	44
Blanket Flower.....	54
Bluebells.....	45, 46
Bocconia.....	43
Browallia.....	44
Butterfly Flower.....	67
Cacalia.....	44
Calceolaria.....	44
Calandula.....	45
Calliopis.....	4, 45
Campanula.....	45, 46
Campion, Rose.....	39
Canary-Bird Flower.....	45
Candytuft.....	46
Canterbury Bell.....	46
Cardinal Climber.....	4
Carnations.....	46
Castor-Oil Plant.....	47
Celosia.....	47
Centaurea.....	4, 48
Cerastium.....	44
Chelone.....	49
Chrysanthemums.....	49
Cigar Plant.....	50
Cineraria.....	49
Clarkia.....	4, 49
Clematis.....	49
Cleome.....	49
Clerodendron.....	49
Clianthus.....	49
Cobaea.....	49
Cockscomb.....	47
Coleus.....	49
Columbine.....	40
Convolvulus.....	49
Cornflowers.....	49
Cosmos.....	4, 50
Cowslip.....	51
Cup-and-Saucer.....	46
Cup-and-Saucer Vine.....	49
Cyclamen.....	51
Cypress, Summer.....	57
Cypress Vine.....	50
Dahlia.....	50
Daisy.....	4, 41, 44, 49
Datura.....	51
Delphiniums.....	5, 51
Dianthus.....	52, 71
Digitalis.....	52
Dimorphotheca.....	4
Dolichos.....	51
Dracena.....	52
Dragonhead, False.....	61
Dusty Miller.....	48
Dutchman's Pipe.....	41
Echinocystis.....	53
Echinops.....	53
Eryngium.....	53
Eschscholtzia.....	53, 56
Eupatorium.....	53
Euphorbia.....	53
Everlasting Flowers.....	73
Feverfew.....	58
Floss Flower.....	39
Forget-me-not.....	53
Four o'Clock.....	53
Foxglove.....	52
Fringe Flower.....	67
Fuchsia.....	53
Gaillardia.....	5, 54
Gaura.....	53
Geum.....	53
Gloxinia.....	53
Gnaphalium.....	53
Godetia.....	54
Gomphrena.....	53, 73
Gourds.....	54
Grasses, Ornamental.....	73
Grevillea.....	54
Gypsophila.....	54
Helianthus.....	54
Helianthus.....	54, 55
Helichrysum.....	55, 73
Heliosip.....	55
Heliotrope.....	55, 71
Heuchera.....	55
Hibiscus.....	55
Hollyhocks.....	56
Honesty.....	55
Hop, Japan.....	56
Humulus.....	56
Hunemannia.....	56
Iberis.....	46
Ice Plant.....	56
Impatiens.....	56
Incarvillea.....	56
Impatiens.....	50, 57
Ivy, Kenilworth.....	57
Kochia.....	57

Kudzu Vine, Japan-ese.....	64
Lady's Slipper.....	44
Lantana.....	57
Larkspurs.....	5, 51, 57
Lathyrus.....	57
Lavatera.....	57
Lavender.....	57, 70, 73
Lavendula.....	57
Linum.....	57
Lobelia.....	58
Love-in-a-Mist.....	61
Lupinus.....	5, 58
Lupinus.....	58
Lychnis.....	57
Mallow.....	57, 58
Malva.....	58
Maple, Flowering.....	39
Marigold.....	6, 45, 59
Marshmallow.....	55
Matricaria.....	58
Matthiola.....	58
Maurandia.....	58
Mignonette.....	59
Mimosa.....	58
Mimulus.....	58
Mirabilis.....	53
Momordica.....	58
Monarda.....	58
Monkshood.....	39
Moonflower.....	57
Moonwort.....	55
Morning-Glory.....	49
Mourning Bride.....	67
Musa.....	58
Myosotis.....	53
Nasturtium.....	6, 60
Nemophila.....	61
Nicotiana.....	61
Nigella.....	61
Oenothera.....	61
Oxalis.....	61
Painted Tongue.....	66
Pansies.....	6, 62, 72
Passion Flower.....	64
Pentstemon.....	64
Pepper.....	61
Periwinkle, Madagas-car.....	72
Petunia.....	6, 63
Phlox.....	61
Physalis.....	64
Physostegia.....	61
Pin-Cushion Flower.....	61
Pinks.....	39, 52
Platycodon.....	50
Polemonium.....	64
Polyanthus.....	6
Poppies.....	6, 43, 53, 56, 64
Portulaca.....	64
Primrose.....	61, 65
Primulas.....	6, 65
Pueraria.....	64
Pyrethrum.....	65
Rehmannia.....	66
Reseda.....	59
Rhodanthe.....	73
Ricinus.....	47
Rose of Heaven.....	39
Sage.....	66
Salpiglossis.....	66
Salvia.....	7, 66
Scabiosa.....	66
Schizanthus.....	67
Shamrock.....	67
Silene.....	67
Smilax.....	67
Snapdragon.....	41
Sneezewort.....	39, 54
Solanum.....	70
Statice.....	70, 73
Stevia.....	70
Stocks.....	58, 70, 72
Stokesia.....	70
Straw Flower.....	55, 73
Streptocarpus.....	70
Sunflower.....	7, 54, 55
Sweet Peas.....	8, 9, 68, 69
Sweet Scabious.....	67
Sweet William.....	7, 71
Tagetes.....	70
Thunbergia.....	70
Torenia.....	70
Tritoma.....	71
Trollius.....	71
Trumpet Flower.....	51
Turtle Head.....	44
Valerian.....	71
Verbenas.....	39, 71
Veronica.....	72
Vinca.....	72
Violet.....	72

Violet.....	72
Wahlenbergia.....	72
Wallflower.....	72
Windflower.....	40
Xeranthemum.....	73
Zinnia.....	7, 72

Bulbs and Plants

Achillea.....	113
Aconitum.....	113
Adam's Needle.....	118
Agrostemma.....	113
Alyssum.....	113
Amaryllis.....	101, 104
Ampelopsis.....	109
Anchusa.....	113
Anemone.....	101, 113
Apios.....	101
Aquilegia.....	113
Arabis.....	113
Aristolochia.....	109
Aster, Cornflower.....	118
Baby's Breath.....	115
Beard Tongue.....	116
Begonias, Tuberosus-rooted.....	102
Bellflower.....	114
Bessera.....	101
Bignonia.....	109
Bleeding Heart.....	104
Bocconia.....	113
Boltonia.....	113
Caladium.....	101, 103
Callas.....	104
Campanula.....	114
Campion.....	113, 116
Candytuft.....	116
Cannas.....	87, 88
Canterbury Bells.....	114
Carnations.....	124
Chelone.....	113
Chrysanthemums.....	114, 124
Cinnamon Vine.....	101
Clematis.....	109
Climbing Plants.....	109
Columbine.....	113
Coneflower.....	117
Dahlias.....	89-95
Daisy, Shasta.....	114
Delphiniums.....	115
Dianthus.....	117
Dielstra.....	104
Digitalis.....	115
Doronicum.....	115
Elephant's Ear.....	101
Eremurus.....	104
Eupatorium.....	115
Flame Flower.....	118
Foxglove.....	115
Gaillardia.....	115
Geum.....	115
Gladioli.....	96-98
Globe Flower.....	118
Gloxinia.....	103
Gypsophila.....	115
Hedge Plants.....	108
Helanium.....	115
Helianthus.....	115
Heliosip.....	115
Heliotrope.....	118
Hemerocallis.....	115
Heuchera.....	115
Hollyhocks.....	116
Honeysuckle.....	109
Hyacinth, Summer.....	104
Hyacinthus.....	104
Iberis.....	116
Iris.....	110
Ismene.....	104
Kudzu Vine, Japan-ese.....	106
Lavender, Great Sea.....	117
Lilies.....	99, 100, 118
Lily-of-the-Valley.....	100
Lobelia.....	116
Lupine.....	116
Lupinus.....	116
Lychnis.....	116
Lycoris.....	104
Madeira Vine.....	104
Madwort.....	113
Milla.....	104
Monarda.....	116
Monkshood.....	113
Montbretias.....	105
Oxalis.....	104
Papaver.....	117
Peach Bells.....	114
Pentstemon.....	116
Peonies.....	111

Perennial Plants, Hardy.....	113-118
Phlox.....	112
Physostegia.....	116
Pinks.....	112, 116
Platycodon.....	117
Poppies.....	113, 117
Pyrethrum.....	117
Red-Hot Poker.....	118
Richardia.....	104
Roses.....	106-108, 125
Rudbeckia.....	117
Saxifraga.....	117
Scabiosa.....	117
Sedum.....	117
Shell Flower.....	105, 113
Sneezewort.....	115
Speedwell.....	118
Spurred Flower.....	118
Statice.....	117
Stokesia.....	118
Sunflower.....	115
Sweet William.....	117
Tigridias.....	105
Tritoma.....	118
Trollius.....	118
Trumpet Vine.....	109
Tuberoses.....	105
Valeriana.....	118
Veronica.....	118
Wallflower.....	118
Windflower.....	113
Wistaria.....	101, 109
Yucca.....	118

Shrubs

Acer.....	120
Azalea.....	119
Bladder Nut.....	120
Calycanthus.....	119
Cerasus.....	119
Cherry, Flowering.....	119
Cornus.....	119
Crab, Fragrant-flowered.....	120
Crataegus.....	119
Cytisus.....	119
Deutzia.....	119
Dogwood.....	119
Elder.....	120
Forsythia.....	119
Golden Chain.....	119
Hawthorn.....	119
Hibiscus.....	119
Honeysuckle.....	119
Hydrangea.....	119
Kerria.....	119
Lilacs.....	119
Lonicera.....	119
Magnolias.....	120
Mahonia.....	120
Malus.....	120
Gladioli.....	96-98
Globe Flower.....	118
Gloxinia.....	103
Gypsophila.....	115
Hedge Plants.....	108
Helanium.....	115
Helianthus.....	115
Heliosip.....	115
Heliotrope.....	118
Hemerocallis.....	115
Heuchera.....	115
Hollyhocks.....	116
Honeysuckle.....	109
Hyacinth, Summer.....	104
Hyacinthus.....	104
Iberis.....	116
Iris.....	110
Ismene.....	104
Kudzu Vine, Japan-ese.....	106
Lavender, Great Sea.....	117
Lilies.....	99, 100, 118
Lily-of-the-Valley.....	100
Lobelia.....	116
Lupine.....	116
Lupinus.....	116
Lychnis.....	116
Lycoris.....	104
Madeira Vine.....	104
Madwort.....	113
Milla.....	104
Monarda.....	116
Monkshood.....	113
Montbretias.....	105
Oxalis.....	104
Papaver.....	117
Peach Bells.....	114
Pentstemon.....	116
Peonies.....	111

Cane.....	84
Clover.....	80
Corn.....	82
Cowpeas.....	83
Grass Seed.....	74-79
Lucerne.....	80
Millet.....	84, 85
Oats.....	85
Peas, Field.....	83
Rape.....	84
Rye.....	85
Sudan Grass.....	81
Sunflower.....	84
Vetch.....	84
Wheat.....	85

Implements and Miscellaneous

Arches.....	132
Asparagus Buncher.....	129
Asparagus Knives.....	129
Barrow, Garden.....	133
Baskets.....	130, 133
Bird-houses.....	132
Books.....	3d cov.
Brackets, Flower-Pot.....	130
Bulb Pans.....	130
Charcoal.....	146
Cocoanut Fiber.....	146
Corn Planter.....	127
Dibbles.....	129
Farmgerm.....	81
Fertilizers.....	147
Fiberware.....	130
Flower-boxes.....	130, 131
Flower Pots.....	130
Forks.....	128,

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